Project: Add. Invest. Fire Training Area 'B' 68VC623 LEA Comm No: Client: Pratt & Whitney East Hartford East Hartford, CT Location: illing Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core Groundwater Observations: Depth: NM Hours

Start Date 11/18/96 **End Date** 11/18/96

SA-SB-36

Boring ID

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton Northing:

Depth:		At:	Hours	₹ Easting:		
	Sample Information		ation	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1022416	100		6": Black, fine SAND, with Silt, moist, loose, organic, root fragments, riprap; 17": Strong brown, fine SAND, some Silt, moist, loose	0	
† † † †	1022417	100		As Above	0	
+	1022418	100		As Above	0	
† † †	1022419 1022420	100		Pale brown, medium SAND, some fine Sand, little coarse Sand, trace fine Gravel, wet, loose	1.0 1.5	
# # 8 # # # # # # # # # # # # # # # # #	1022421	50		As Above	0	
† † †	1022422	50		As Above	0	
†12 † †	1022423	50		As Above	0.5	
# #	1022424	50		3": As Above; 3": Strong brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	0.0	
				Bottom of Boring at 15.0'		
24				RCRA RECCRDS, CENTER CH TY HANSE D. NO. CTD99007208/ RDMS#1/28		
Comments	: Boreho	le backf	illed with be	entonite chips upon completion.		

Printed On: 1/20/1998

Depth: NM

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623 Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor: Drilling Method:** Geoprobe Sampling Method: **Macro Core Groundwater Observations:**

Hours

Start Date 11/18/96 **End Date** 11/18/96

Boring ID **SA-SB-37**

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing:

Depth:		At:	Hours	₹ Easting:		
_	Sau	mple Informa	tioa	Sample Description		
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
·	1022425	100		Black, fine SAND and SILT, moist, loose, root fragments	0.0	
Ĭ Į	1022426	100		12": As Above; 11": Strong brown, fine SAND and SILT, moist, loose	o	
+4	1022427	100		As Above	0.1	
† † †	1022428	100	`	Light yellowish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose	0	
+8	1022429	100		As Above	0	
ļ	1022430	100		Yellowish brown, fine to medium SAND, some coarse Sand, little fine Gravel, trace Silt, wet, loose	0	
+12	1022431	50		Yellowish brown, fine SAND, little medium Sand, trace Silt, wet, loose	0	
‡	1022432	50		Strong brown, fine SAND, little medium Sand, trace Silt, wet, loose	0	
16				Bottom of Boring at 15.0'		
-20						
+ + + 24						
<u> </u>						
Commen	ts: Boreho	ole backfil	led with be	entonite chips upon completion.		

GEOLOGIC BORING LOG Page 1 of 1 Start Date Project: Add. Invest. Fire Training Area 'B' Boring ID 11/19/96 LEA Comm No: 68VC623 Client: Pratt & Whitney East Hartford End Date SA-SB-38 Location: East Hartford, CT 11/19/96 **Drilling Contractor:** Logged By: L. Bianchi LEA Drilling Method: Drilling Foreman: J. Sweeton Geoprobe Drill Rig: Sampling Method: Macro Core Geoprobe 5400 **Groundwater Observations:** Surface Elevation: Depth: NM Hours Northing: At: Hours Depth: At: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 1022435 100 18": Dark brown, fine SAND, some Silt, little medium Sand, moist, loose, root fragments; 5": Concrete rubble 1022436 1022437 100 0.0 Yellowish red, fine SAND, little Silt, trace medium Sand, moist, loose 1022438 100 0.2 Light yellowish brown, fine SAND, with medium Sand, some Silt, little coarse Sand, wet, loose 1022439 100 0.0 As Above 1022440 100 0.8 As Above 1022441 100 0.2 Strong brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose 12 1022442 100 Pale brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose 0.0 1022443 100 Strong brown, fine to medium SAND, some coarse Sand, little Silt, wet, loose Bottom of Boring at 15.0' 16

Comments:

20

Borehole backfilled with bentonite chips upon completion.

Printed On: 1/20/1998

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623
Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations: Depth: NM At: Hours

rt Date 11/9/96 End Date 11/19/96

Boring ID **SA-SB-39**

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

DOMESTICE TOTAL	ř
Northing:	
Mariante.	
Vocting	

1022444 100 5°: Black, fine SAND and SILT, moist, loose, organic, root fragments; 18°: Yellowish red, fine Sand, some Silt, little medium Sand, moist, loose 1022446 100 Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose 1022447 100 As Above 0.4	Depth:		At:	Hours	Easting:		
Moisture, Sorting, Sphericity, Augularity, Sedimentary Structures, Density, Cobserveness Sedimentary Structures, Structures, Springer, Structures, Springer, Structures, Springer, Structures, Springer, Structures, Springer, Springer, Structures, Springer, Structures, Springer, Structures, Springer, Structures, Springer, Springer, Structures, Springer, Structures, Springer, Sprin		Sar	nple Informat	tion	Sample Description		
1022445 100 As Above 0.3 1022446 100 Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose 1022447 100 As Above, wet 0.6 1022448 100 Light greyish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, wet, loose 1022449 100 Yellowish brown, medium SAND, some coarse Sand, little fine Sand, trace(-) fine Gravel, trace(-) Silt, wet, loose 1022450 100 Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above 0.6 Bottom of Boring at 15.0'		Sample No.	Recovery (X)	Blows /6*	Moisture, Sorting, Sphericity, Angularity,	(ppm	
Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose 1022447 100 As Above, wet 1022448 100 Light greyish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, wet, loose 1022449 100 Yellowish brown, medium SAND, some coarse Sand, little fine Sand, trace(-) fine Gravel, trace(-) Silt, wet, loose 12 12 1022450 100 Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0'	+0	1022444	100		fragments; 18": Yellowish red, fine Sand, some Silt, little	0.0	
Silt, moist, loose 1022447 100 As Above, wet 1022448 100 Light greyish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, wet, loose 1022449 100 Yellowish brown, medium SAND, some coarse Sand, little fine Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose 1022450 100 Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0*	Ī	1022445	100		As Above	0.1	
Light greyish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, wet, loose 1022449 100 Yellowish brown, medium SAND, some coarse Sand, little fine Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose 1022450 100 Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0'	+4	1022446	100			0.2	
trace(+) coarse Sand, trace(-) fine Gravel, wet, loose 1022449 100 Yellowish brown, medium SAND, some coarse Sand, little fine Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose 1022450 100 Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0'	‡	1022447	100		As Above, wet	0.0	
fine Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0'	8	1022448	100		Light greyish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, wet, loose	0.0	
Yellowish brown, fine SAND, some Silt, little medium Sand, trace(-) coarse Sand, wet, loose 1022451 100 As Above Bottom of Boring at 15.0'	#	1022449	100			0.1	
Bottom of Boring at 15.0'	12	1022450	100			0.0	
	‡	1022451	100		As Above	0.0	
——————————————————————————————————————	18				Bottom of Boring at 15.0'		
+	20						
<u> </u>	24				·		
Comments: Borehole backfilled with bentonite chips upon completion.	<u> </u>		1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1- 1	ا المادية			

Project: Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Maci Groundwater Observations: Denth: NM At: Macro Core

Start Date 11/19/96 End Date 11/19/96

Boring ID

SA-SB-40

Logged By: L. Bianchi
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth: Depth:		At: At:	Hours Hours	Northing: Easting:	
	Sa	mple Informat	ion	Sample Description	Γ
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1022452	100		8": Black, fine SAND and SILT, moist, loose, organic, root fragments; 15": Brown, fine SAND, some Silt, little medium Sand, moist, loose	0.0
Ī	1022453	100		As Above	0.2
+4	1022454	50		Yellowish brown, medium SAND, with fine Sand, little coarse Sand, trace Silt, moist, loose	0.1
‡	1022455	50		Yellowish brown, medium SAND, little fine Sand, trace(+) Silt, trace(-) coarse Sand, wet, loose	0.1
+8	1022456	100		As Above	0.0
‡	1022457	100		6": As Above; 17": Dark yellowish red, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose	0.0
+12 +	1022458	100		15": Greyish brown, fine to medium SAND, some coarse Sand, trace Silt, wet, loose; 8": Yellowish red, medium SAND, some fine Sand, little coarse Sand, trace(+) Silt,	0.0
Ţ	1022459	100		\trace(-) fine Gravel, wet, loose As Above	0.0
16				Bottom of Boring at 15.0'	
20					
-24					
Comme	nts: Boreho	ole backfil	led with be	entonite chips upon completion.	! _

Project: Add. Invest. Fire Training Area 'B' Start Date **Boring ID** LEA Comm No: 68VC623 11/20/96 Client: Pratt & Whitney **End Date SA-SB-41** 11/20/96 Location: East Hartford, CT Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting: **Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe Macro Core Depth: NM

Depth:	At: Hours		Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (2)	Blows ∕6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
0	1022462	100		4": Black, fine SAND and SILT, moist, loose, root fragments, organic; 19": Brown, fine SAND, with Silt, little medium Sand, moist, loose	0.1	
†	1022463 1022464	100		12": Reddish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose; 11": Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose	0.0	
+4	1022465	100		Yellowish brown, medium SAND, little fine Sand, trace(+) coarse Sand, trace(-) Silt, moist, loose	0.1	
†	1022466	100	-	As Above, wet	0.2	
8	1022467	100		As Above	0.2	
† † † †	1022468	100		12": As Above; 11": Dark reddish brown/black, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.5	
+12	1022469	100		Pale yellowish brown, fine SAND, with medium Sand, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.2	
‡	0122470	100		Dark reddish yellow, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.0	
+ + + + + +				Bottom of Boring at 15.0'		
20						
-24						
Comments	: Boreho	le backfil	led with be	entonite chips upon completion.		

Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro Core **Groundwater Observations:**

Hours

Start Date 11/20/96 **End Date** 11/20/96

Boring ID SA-SB-42

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth: Ni Depth:		At: At:	Hours Hours	Northing: Easting:		
~ 	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (な)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп	
0	1022471	100		6": Black, fine SAND and SILT, moist, loose, root fragments organic; 15": Brown, fine SAND, with Silt, little medium SAND, moist, loose; 2": Reddish brown, fine to medium	0.0	
<u> </u>	1022472	100		SAND, little Silt, trace coarse Sand, moist, loose 10": As Above; 13": Light yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	0.0	
+4	1022473	50		As Above, concrete rubble	0.3	
-	1022474	50		As Above, wet	0.0	
+8 +	1022475	100		Dark yellowish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.5	
† †	1022476	100		18": As Above; 5": Dark reddish brown/black, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	0.0	
+12 +	1022477	100		Dark yellowish brown, medium SAND, with fine Sand, some coarse Sand, with Silt, trace fine Gravel, wet, loose	1.3	
+	1022478	100		As Above	0.1	
-16 16				Bottom of Boring at 15.0'		
-20						
+ + 						
Comments	Donat -	la basistiii	- با جامانی در اس	entonite chips upon completion.		

Project: Add. Invest. Fire Training Area 'B' Start Date Boring ID LEA Comm No: 11/20/96 68VC623 Client: Pratt & Whitney East Hartford **End Date** SA-SB-43 Location: East Hartford, CT 11/20/96 Logged By: L. Bianchi **Drilling Contractor:** LEA Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: Groundwater Observations: Depth: NM Hours Northing: At: Hours Depth: At: **Easting:** Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022479 100 Brown, fine SAND, with Silt, moist, loose, root fragments 0.0 1022480 100 0.0 10": As Above; 13": Yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose 1022481 100 0.0 As Above 1022482 100 0.0 Dark yellowish brown, fine to medium SAND, little Silt, trace(+) coarse Sand, wet, loose 1022483 50 0.1 As Above 1022484 0.0 8": As Above; 4": Dark reddish brown/black, medium to coarse SAND, some fine Sand, little Silt, wet, loose 12 1022485 100 0.0 Dark yellowish brown, medium SAND with fine Sand, some coarse Sand, little Silt, trace fine Gravel, wet, loose 100 0.0 Printed On: 1/20/1998 1022486 As Above Bottom of Boring at 15.0' 16 20

Comments:

24

Borehole backfilled with bentonite chips upon completion.

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623 Client: Pratt & Whitney East Hartford Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Maci Groundwater Observations: Depth: NM At: Macro Core Hours

Start Date 11/20/96 End Date 11/20/96

Boring ID

SA-SB-44

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:

J. Sweeton

Northing:

Depth:		At:	Hours	Easting:		
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn	
·	1022487	100		5": Dark brown, fine SAND and SILT, moist, loose, root fragments, organic; 18": Brown, fine SAND, some Silt, little medium Sand, moist, loose	0.0	
Ī	1022488	100		As Above	0.0	
+4	1022489	50		As Above	0.0	
Ŧ	1022490	50		As Above, wet	0.1	
8	1022491	100		As Above	0.7	
†	1022492	100		15": As Above; 8": Dark reddish brown, medium SAND, some coarse Sand, little fine Sand, trace Silt, wet, loose	0.0	
12	1022493	100		Strong brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	0.9	
+	1022494	100		As Above	0.1	
16				Bottom of Boring at 15.0'		
20						
+24						
Commen	An Baraha	la baaletii		entonite chips upon completion.		

Depth:

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623
Client: Pratt & Whitney East Hartford
Location: East Hartford, CT

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core
Groundwater Observations:
Depth: NM At: Hours

At:

Hours

Start Date 11/21/96 End Date 11/21/96

Boring ID SA-SB-45

Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400

Surface Elevation: Northing: Easting:

рерш.		<u> </u>	HVUIS	* Dasting.	
	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T °	1022497	100		18": Brown, fine SAND and SILT, little medium Sand, moist, loose, some root fragments; 5": Strong brown, fine SAND, little Silt, trace medium Sand, moist, loose	0.0
1	1022498	100		As Above	0.0
+4	1022499	100		Light yellowish brown, fine to medium SAND, some Silt, moist, loose	2.5
	1022500	100		As Above, wet at ≈7.0'	0.0
- 8	1022501	100		As Above	0.1
<u> </u>	1022502	100		Dark reddish yellow, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose	0.2
+12	1022503	100		As Above	2.3
	1022504	100		As Above	0.0
16				Bottom of Boring at 15.0'	
-20					
-24					
Comments	: Boreho	ole backfil	led with be	entonite chips upon completion.	

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Printed On: 1/20/1998

LEÀ Comn Client: Pr	Add. Invest 1 No: 68' att & Whit East Hartl	VC623 ney East	aining Area Hartford	Start Date Boring ID Boring ID BA-SB-46	
Drilling Co Drilling Me Sampling M	ntractor: thod: G fethod: er Observat VI A	LEA eoprobe Macro C	ore Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows /6*	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
†°	1022506	100		Brown, fine SAND and SILT, trace medium Sand, moist, loose	0.0
† †	1022506	100		6": As Above; 17": Light yellowish brown, fine to medium SAND, little Silt, trace coarse Gravel, moist, loose	0.0
† 4	1022507	50		As Above, very moist	0,0
‡ †	1022508	60		Yellowish brown, medium to coarse SAND, with fine Sand, little Silt, trace fine Gravel, wet, loose	0.2
+8	1022509 1022510	100		Olive brown, fine SAND, with Silt, wet, loose	0.1
<u> </u>	1022511	100		As Above	0.0
12	1022512	100		As Above	0.0
† †	1022513	100		Reddish brown, fine SAND, with Silt, wet, loose	0.0
16				Bottom of Boring at 15.0'	
24					
Comments:	Borehol Olive or	le backfill	ed with be	ntonite chips upon completion. race Silt, wet, stiff at 15.5'	<u> </u>

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623
Client: Pratt & Whitney East Hartford Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** Depth: NM At: Hours Depth: At: Hours

Start Date 11/25/96 **End Date** 11/25/96

Boring ID SA-SB-47

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

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nchm:		<u> </u>	MOULS	T Essetting.	
	San	nple Informs	ntion .	Sample Description	
Elevation/ Depth	Sample 'No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1022516	100		1": Dark brown, fine SAND and SILT, moist, loose, root fragments, organic; 22": Yellowish brown, fine SAND and SILT, moist, loose, root fragments	2.0
‡	1022517	100		Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose	2.5
+4	1022518	50		Greyish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet at ≈5.0', loose	3.0
† † †	1022519	50		6": Black medium SAND, with fine Sand, trace(-) Silt, wet, loose, hydrocarbon odor; 6": Olive brown, fine SAND, little Silt, trace medium Sand, wet, loose	5.5
+8	1022520	50		As Above	30
† †	1022521	50		As Above	2.5
12	1022522	76		10": Dark red, medium SAND, some fine Sand, little coarse Sand, little Silt, wet, loose; 8": Olive grey, varved CLAY, trace Silt, wet, loose	2.0
‡ .	.1022523	75		As Above	4.0
† + + 16 + + + + + +				Bottom of Boring at 15.0'	
+20 +					
24					
	<u> </u>				
Comments	: Boreho	le backfi	illed with be	entonite chips upon completion.	

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623 **Start Date** Boring ID 11/25/96 Client: Pratt & Whitney East Hartford **End Date** SA-SB-48 Location: East Hartford, CT 11/25/96 **Drilling Contractor:** Logged By: L. Bianchi Drilling Method: Geopre Sampling Method: Maci Groundwater Observations: Drilling Foreman: Drill Rig: Geopr J. Sweeton Geoprobe Geoprobe 5400 Macro Core Surface Elevation: Depth: NM Depth: Hours Northing: At: Hours Easting:

At: Ho	urs 🗦 Kasting:		
Sample Information	Sample Description		
Sample Recovery Blows 16. (2) .76"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
022524 100	Yellowish brown, fine SAND and SILT, moist, loose, root fragments		
1022525 1022526	Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose		
1022527 50	Yellowish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, moist, loose		
1022528 50	Light olive brown, fine to medium SAND, some coarse Sand, little Silt, wet, loose		
1022529 100	Olive brown, fine SAND, with Silt, wet, loose		
1022530 100	6": As Above; 17": Dark yellowish brown, fine SAND, little Silt, trace medium Sand, wet, loose		
100 .	18": Light olive brown, fine SAND, little Silt, wet, loose; 5": Red, medium SAND, some fine Sand, little Silt, trace coarse Sand, wet, loose		
1022532 100	As Above		
	Bottom of Boring at 15.'*		
Borehol	e backfilled with		

* Olive grey, varved CLAY, trace Silt, wet, stiff at 15.5'.



Project: Add. Invest. Fire Training Area 'B'

LEA Comm No: 68VC623

Client: Pratt & Whitney East Hartford

Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations:

Depth: NM Depth:

At: At: Hours

Hours

Start Date 11/25/96 **End Date** 11/25/96

Boring ID

SA-SB-49

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing: Easting:

	San	npie Informat	bion.	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1022533	100		Yellowish brown, fine SAND and SILT, moist, loose, processed stone, slag, coal fragments	0.0	
<u> </u>	1022534	100		Light yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose	0.0	
+4	1022535	100		Greyish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet at ≈5.0', loose	-	
‡ ‡	1022536	100		5": Black, medium SAND with fine Sand, trace(-) Silt, wet, loose; 18": Olive brown, fine SAND, little Silt, trace medium Sand, wet, loose	2.0	
+8	1022537	100		Dark grey, medium SAND and fine SAND, little Silt, trace coarse Sand, wet, loose	9.0	
† †	1022538	100		Yellowish brown, fine SAND, some Silt, wet, loose	5.0	
12	1022539	100		8": As Above; 15": Red, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	1.0	
‡	1022540	100		As Above	1.0	
16				Bottom of Boring at 15.0		
20						
24						
Comments	: Boreho	le backfil	led with b	entonite chips upon completion. Olive grey, varved CLAY,		

Borehole backfilled with bentonite chips upon completion. Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'.

GEOLOGIC BORING LOG Page 1 of 1 Project: Add. Invest. Fire Training Area 'B' Start Date **Boring ID** 68VC623 LEA Comm No: 11/26/96 Client: Pratt & Whitney East Hartford **End Date** SA-SB-50 11/26<u>/96</u> Location: East Hartford, CT L. Bianchi **Drilling Contractor:** Logged By: Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing: At: Hours Easting: Depth: Sample Description Sample Information or, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows ecaver(۲) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 100 0 1022543 2.0 Brown, fine SAND, with Silt, trace medium Sand, moist, loose, root fragments 1022544 100 3.5 Light yellowish brown, fine SAND, some Silt, trace(-) medium Sand, moist, loose 1022545 50 5.0 Greyish brown, fine to medium SAND, little Silt, trace coarse Sand, wet at ≈5.0', loose 1022546 1022547 50 7.5 20": Grevish brown, medium SAND, some coarse Sand, little fine Sand, trace Silt, wet, loose; 3": Black, medium SAND, little coarse Sand, little fine Sand, trace(-) Silt, wet, loose, hydrocarbon odor 1022548 100 35.0 Dark olive brown, fine to medium SAND, little coarse Sand, little Silt, wet, loose 1022549 100 7.0 Dark olive grey, fine SAND, some Silt, wet, loose 2 1022550 50 3.0 Grey, fine SAND, little medium Sand, trace Silt, wet, loose 1022551 3.5 Red, medium to coarse SAND, some fine Sand, little Silt, wet, loose Bottom of Boring at 15.0' 16

20

Comments: Borehole backfilled with bentonite chips upon completion. Olive grey, varved CLAY, trace Silt, wet, stiff at 15.5'.

Project: Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: **Macro Core**

Groundwater Observations:

Depth: NM At: Hours Start Date 11/26/96 End Date 11/26/96

Boring ID SA-SB-51

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth:		At:	Hours	Easting:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1022552	100		Brown, fine SAND, with Silt, trace medium Sand, moist, loose	1.0
† † †	1022553	100		Light yellowish brown, fine SAND, some Silt, trace(-) medium Sand, moist, loose	2.0
+4	1022554	100		Greyish brown, fine to medium SAND, little coarse Sand, little Silt, wet at ≈5.0', loose	3.0
† †	1022555	100		15": As Above; 8": Black, medium SAND, little coarse Sand, little fine Sand, trace(-) Silt, wet, loose, hydrocarbon odor	120.0
+8	1022556	100		Dark olive brown, fine to medium SAND, little coarse Sand, little Silt, wet, loose	210.0
† †	1022557	100		Dark olive grey, fine SAND, little Silt, trace medium Sand, wet, loose	2.0
12	1022558	10		Red, medium to coarse SAND, some fine Sand, little Silt, wet, loose	5.0
‡	1022559	100		Olive grey, varved CLAY, trace Silt, wet, stiff	4.0
16				Bottom of Boring at 15.0'	
20					
-24					
Comment	Rozeho	le heckfi	lled with he	entonite chips upon completion.	

Project: Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623 Client: Pratt & Whitney East Hartford Location: East Hartford, CT **Drilling Contractor: Drilling Method:** Geoprobe

Sampling Method: Maci Groundwater Observations: Macro Core At: Depth: NM Hours

Depth: Hours At:

Start Date 11/26/96 **End Date** 11/26/96

Boring ID SA-SB-52

Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Slevation/ Depth	Sample No.	ple Informati		Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
Depth	Sample No.	Recovery	81	Color. Primary Grain Size, Secondary Grain Sizes.	1
l	1	Recovery Blows (%) /6"	76°	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп
+	1022560	100		Brown, fine SAND, with Silt, trace medium Sand, moist, loose, root fragments	4.0
† † †	1022561	100		Light yellowish brown, fine SAND, some Silt, trace(-) medium Sand, moist, loose	2.0
+4	1022562	76	_	Olive brown, fine SAND, some medium Sand, little Silt, wet at ≈5.0', loose	1.0
‡	1022563	75		As Above	1.0
+8 -	1022564	75		Dark reddish yellow, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	3.0
+	1022565	75		As Above	0.8
12	1022566	10		Olive grey, varved CLAY, trace Silt, wet, stiff	1.0
† † †	1022567	100		As Above	-
16				Bottom of Boring at 15.0'	
†					
-20					
†	·				
 					
+24					



Printed On: 1/20/1998

Project: LEA Comm Client: Pr	n No: 68	VC623	aining Area	11/27/96 Boring ID	- 1	
Location: Drilling Co Drilling Me Sampling Me Groundwate	East Hart intractor: ethod: G Aethod: ter Observa	ford, CT LEA ieoprobe Macro (tions:	Core	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:	3	_
Depth: Ni Depth:		At: At: aple Informa	Hours Hours	Northing: Easting: Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Bloes /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1022570	100		Light brown, fine SAND, some Silt, trace(-) medium Sand, moist, loose	0.0	
† + +	1022571	100		Light yellowish brown, fine SAND, little Silt, moist, loose	0.0	
+4	1022572 1022573	100		Light olive brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet at ≈ 5.0 ', loose	1.0	
†	1022574	100		7": 16": Black, fine to medium SAND, little coarse Sand, trace(-) Silt, wet, loose, hydrocarbon odor	350.0	
+8	1022575	100		Light olive brown, fine to medium SAND, little Silt, wet, loose	1.0	
† +	1022576	100		As Above	0.0	
+12	1022877	6		As Above	-	
‡	1022578	10		Olive grey, varved CLAY, trace Silt, wet, stiff	-	Frunt
16				Bottom of Boring at 15.0'		M ON: 1/21/1998
20						
-24						Guitoa
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.		

Boring ID

GEOLOGIC BORING LOG Project: Add. LEA Comm No: Add. Invest. Fire Training Area 'B' Start Date 68VC623 12/02/96 Client: Pratt & Whitney East Hartford **End Date** Location: East Hartford, CT 2/02/96 **Drilling Contractor:** Logged By: Geoprobe **Drilling Method:** Sampling Method: Macro Core Groundwater Observations: Depth: NM At: Surface Elevation: Hours Northing: Depth: At: Hours Easting:

SA-SB-54 B. Tomicic Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Depui:		At;	170012	F Easung:	
	San	nple Informati	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
10	1022587	83		Top 6": Dark brown, medium SAND, some fine Sand, moist, topsoil; Bottom 18": Brown, fine SAND, moderately dense, moist	0.0
†	1022588	100		Greyish brown, coarse SAND, with medium Sand, loose, moist, poorly graded	0.0
+4	1022589	21		As Above	0.2
+	1022590	100		As Above	0.0
+8	1022591	75		As Above, wet	0.0
† †	1022592	100		Top 20": As Above; Bottom 2": Reddish brown, medium SAND, with fine Sand, loose, wet	0.0
12	1022593	17		Grey, varved CLAY, dense, wet, hit clay at 13'	0.0
† †	1022594	100		As Above	0.0
+16 - - - -				Bottom of Boring at 16'	
+ 20 + 1					
-24					
T	(1 1			

Page 1 of 1 Project: Add. Invest. Fire Training Area 'B' Start Date Boring ID LEA Comm No: 68VC623 12/02/96 Client: Pratt & Whitney **End Date** SA-SB-55 Location: East Hartford, CT 12/02/96 Logged By: B. To Drilling Foreman: **B.** Tomicic **Drilling Contractor:** IFA Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Depth: NM Hours Northing: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No Recovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022595 58 0.0 Top 4": Dark brown, fine SAND, loose, well sorted, organic material 0.0 100 1022596 Light brown, fine SAND, moist, moderately dense, well 1022597 25 0.0 Top 18": No Recovery; Bottom 6": As Above 100 1022598 0.0 Top 1': As Above; Bottom 1': Reddish brown, fine SAND, some medium Sand, wet, loose, poorly sorted R 1022599 46 0.0 Top 13": No Recovery; Bottom 11": Brown, fine SAND, with medium Sand, wet, loose 100 0.0 1022600 Top 1': As Above; Bottom 1': Reddish brown, fine SAND, with medium Sand, wet, loose 12 1022601 83 0.1 Top 1': Brownish grey, silty CLAY, trace(-) fine Sand, wet, dense, Bottom 1': Brownish grey, varved CLAY, dense 1022602 100 0.0 As Above Bottom of Boring at 16' 20

Comments:

Borehole backfilled with bentonite chips upon completion.

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Boring ID

SA-SB-56

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623 Start Date 12/02/96 Client: Pratt & Whitney **End Date** East Hartford, CT Location: 12/02/96 Logged By: **Drilling Contractor:** LEA **B.** Tomicic Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: Geoprobe J. Sweeton Macro Core Hours Northing:

Depth:	MM		Al: At:	Hours	Fortung: Easting:		
<u></u>		Sample Information			Sample Description		
Elevation/ Depth		Sample No.	Recovery (な)	Blows ∕6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ľ		1022603	50		Brown, fine SAND, dry, loose, organic matter	0.0	
†		1022604	100		Brown, medium SAND and fine SAND, moist, moderately dense	0.0	
+4		1022605	29		As Above	0.0	
I I		1022606	83		Top 6": As Above; Bottom 18": Blackish red, medium SAND and fine SAND, wet, moderately dense, mottled	0.0	
+8		1022607	38		As Above	0.0	
Ŧ	-	1022608	100		As Above	0.0	
12	-	1022609	83		Top 1': Brownish grey, silty CLAY, moist, dense; Bottom 1': Grey, varved CLAY, dense	0.0	
+ + +	-	1022610	92		As Above	0.0	
16					Bottom of Boring at 16'		
- 20							
74							
+ 1		 					
Comme	nts:	poreno	ne dacktii	iea with be	ntonite chips upon completion.		

Printed On: 1/21/1998

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Add. Invest. Contractor Storage Area Start Date Project: . Boring ID LEA Comm No: 68VC624 12/03/96 Client: Pratt & Whitney East Hartford **End Date** SA-SB-57 P&W East Hartford, CT 12/03/96 Location: Logged By: B. Tomicic **Drilling Contractor:** LEA Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geopr Surface Elevation: Sampling Method: Geoprobe 5400 Macro Core **Groundwater Observations:** Northing: NM Hours Depth: At: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows ecover (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022720 50 Top 2": Bituminous; Dark reddish brown, coarse SAND, 0.0 some medium Sand, trace(+) fine Sand, loose, moist 100 0.0 1022721 Brown, medium SAND, with fine Sand, moist, loose 1022722 100 0.0 As Above Bottom of Boring at 6' 12 Printed On: 1/20/1998 6 20 24 Boring Comments: Borehole backfilled with bentonite chips upon completion.

Boring No: SA-SB-58

Add. Invest. Contractor Storage Area Project: Start Date **Boring ID** 12/03/96 68VC624 LEA Comm No: Client: Pratt & Whitney East Hartford **End Date SA-SB-58** Location: P&W East Hartford, CT 12/03/96 **Drilling Contractor:** Logged By: **B.** Tomicic **LEA** Drilling Method: Drilling Foreman: Geoprobe J. Sweeton Drill Rig: Sampling Method: Macro Core Geoprobe 5400 Surface Elevation: Groundwater Observations: Depth: NM Northing: Hours At: Depth: At: Hours Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022723 50 0.0 Top 2": Bituminous; Dark reddish brown, coarse SAND, some medium Sand, trace(+) fine Sand, moist, loose 100 0.0 1022724 Brown, medium SAND, with fine Sand, moist, loose 0.0 1022725 67 As Above Bottom of Boring at 6' 20 24 Borehole backfilled with bentonite chips upon completion. Comments:

Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624
Client: Pratt & Whitney East Hartford Start Date **Boring ID** 12/03/96 **End Date SA-SB-59** Location: P&W East Hartford, CT 12/03/96 **B.** Tomicic **Drilling Contractor:** Logged By: Drilling Foreman: Drilling Method: J. Sweeton Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Depth: NM Hours Northing: At: Depth: At: Hours Easting: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022726 0.0 50 Top 2": Bituminous; Dark reddish brown, coarse SAND, some medium Sand, trace(+) fine Sand, moist, loose 1022727 0.0 Brown, medium SAND, with fine Sand, moist, loose-1022728 83 0.0 As Above Bottom of Boring at 6' Printed On: 1/20/1998 16 20 24 Boring Borehole backfilled with bentonite chips upon completion. Comments: ž

Project: LEA Comr Client: Pr	n No: 68	VC624	ctor Storag : Hartford	e Area	Start Pate 712/03/96 End Date	Boring	- 11
Location: Drilling Co Drilling Me Sampling M	P&W Eas ontractor: ethod: 6 Method: ter Observa	t Hartford LEA Geoprobe Macro (Itions: At:	Core Hours Hours	¥ \(\)	Drilling Foreman Drill Rig: Geo Surface Elevation Northing: Easting:	probe 5400	
Elevation/ Depth	Sample No.	Recovery	Blows /6°	Moist	Sample Description imary Grain Size, Secondary G ture, Sorting, Sphericity, Angu ntary Structures, Density, Coho	larity,	(ppm)
10	1022729	50			nous; Dark reddish brown, co Sand, trace(-) fine Sand, moi		0.0
†	1022730	100		Brown, medium	n SAND, some(-) fine Sand, i	noist, loose	0.0
	1022731	75		As Above			0.0
†				Bottom of Borin	ng at 6'		
+ + 8							
-							
12							
				•			
— — —16							
† + -							
+ + 20						·	
+ 20							
+24							
Comments	: Boreho	le backfi	lled with be	ntonite chips up	on completion.	,	

Add. Invest. Contractor Storage Area m No: 68VC624 Project: Start Date Boring ID LEA Comm No: 12/03/96 Client: Pratt & Whitney East Hartford **End Date SA-SB-61** Location: P&W East Hartford, CT 12/03/96 **Drilling Contractor:** LEA Logged By: **B.** Tomicic Drilling Foreman: **Drilling Method:** Geoprobe J. Sweeton Drill Rig: Sampling Method: Macro Core Geoprobe 5400 Groundwater Observations: Surface Elevation: Hours Northing: Depth: NM Hours Easting: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows :cover (४) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022732 0.0 Top 2": Bituminous concrete; Bottom 10": Dark reddish brown, coarse SAND, some medium Sand, moist, loose 1022733 100 0.0 Brown, medium SAND, some(-) fine Sand, moist, loose-0.0 1022734 67 As Above Bottom of Boring at 6' 16 20 Borehole backfilled with bentonite chips upon completion.

A CONTRACTOR OF THE PARTY OF TH Add. Invest. Contractor Storage Area **Start Date** Boring ID LEA Comm No: 12/03/96 68VC624 Client: Pratt & Whitney East Hartford **End Date** SA-SB-62 Location: P&W East Hartford, CT 12/03/96 LEA **Drilling Contractor:** Logged By: B. Tomicic Drilling Method: Drilling Foreman: J. Sweeton Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Depth: NM Hours Northing: At: Hours Easting: Depth: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, cevery (な) (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 58 1022735 Top 1": Bituminous concrete; Dark reddish brown, coarse SAND, some medium Sand, trace fine Sand, moist, loose 1022736 100 0.0 Brown, medium SAND, some(-) fine Sand, moist, loose 1022737 76 0.0 As Above Bottom of Boring at 6' 12 16 20 24 Boring No: SA-SB-62 Borehole backfilled with bentonite chips upon completion.

Boring ID

Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624 Start Date 12/03/96 Client: Pratt & Whitney East Hartford **End Date** P&W East Hartford, CT 12/03/96 Location: **Drilling Contractor: Drilling Method:** Geoprobe Macro Core Sampling Method: **Groundwater Observations:**

SA-SB-63 Logged By: B. T Drilling Foreman: B. Tomicic J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:

Depth: No Depth:	ter Observa M	At: At:	Hours Hours	Northing: Easting:	
		nple Informati	ion	Sample Description	_1
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1022738	67		Top 1": Bituminous; Dark reddish brown, coarse SAND, some medium Sand, trace fine Sand, moist, loose	0.0
†	1022739	100		Brown, medium SAND, some(-) fine Sand, moist, loose	0.0
-4	1022740	58	,,,,,	As Above	0.0
†				Bottom of Boring at 6'	
8					
‡					
<u> </u>					
+12 +					
‡					
16					
† †					
20					
‡					
24					
‡					

Add. Invest. Contractor Storage Area Start Date Project: **Boring ID** LEA Comm No: 68VC624 12/03/96 Client: Pratt & Whitney East Hartford **End Date SA-SB-64** P&W East Hartford, CT Location: 12/03/96 Logged By: B. T Drilling Foreman: LEA **B.** Tomicic **Drilling Contractor:** Drilling Method: Geoprobe J. Sweeton Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: Groundwater Observations: Depth: NM Northing: At: Hours Depth: Hours Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022741 50 0.0 Top 1": Bituminous concrete; Dark reddish brown, coarse SAND, some medium Sand, trace fine Sand, moist, loose 1022742 50 0.0 Brown, medium SAND, some(-) fine Sand, moist, loose 1022743 33 0.0 As Above Bottom of Boring at 6' 12 16 20 24 Boring No: SA-SB-64 Borehole backfilled with bentonite chips upon completion. Comments:

Project: Add. Invest. Contractor Storage Area Start Date Boring ID LEA Comm No: 68VC624 12/03/96 Client: Pratt & Whitney East Hartford **End Date** SA-SB-65 Location: P&W East Hartford, CT 12/03/96

Logged By: B. To Drilling Foreman: **Drilling Contractor:** LEA B. Tomicic Geoprobe Drilling Method: J. Sweeton Sampling Method: Macro Core Drill Rig: Geoprobe 5400 **Groundwater Observations:** Surface Elevation: Northing: Depth: NM Hours

Depth: At: Hours Easting: Sample Description Sample Information Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Recovery (X) Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1022744 50 0.0 Top 1": Bituminous concrete; Dark reddish brown, coarse Sand, some medium Sand, trace fine Sand, moist, loose 1022745 100 0.0 Brown, medium SAND, some(-) fine Sand, moist, loose 1022746 67 0.0 As Above Bottom of Boring at 6' 12 Printed On: 1/20/1998 16 20 24 Boring

Comments:

Borehole backfilled with bentonite chips upon completion.



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Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LE/Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: **LEA** Geoprobe

Macro Core

Depth: NM

At: Hours Start Date 12/04/96 End Date

12/04/96

Boring ID

SA-SB-66

Logged By: J. Klapheke
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:	At: Hours						
	Sample Information			Sample Description			
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
T °	1022751	71		Brown to dark reddish brown, fine to medium SAND, trace coarse Sand, trace(-) Silt, moist, loose	0.0		
†	1022752				0.0		
‡ 4	1022753	63		Dark yellowish brown, fine to coarse(+) SAND, with very fine Gravel, moist to wet, loose	-		
‡	1022754				-		
‡ 8	1022755	67		Dark reddish brown, fine to coarse SAND, trace Silt, trace fine Gravel, wet, loose	0.0		
† † †	1022756				0.0		
‡12 ‡	1022757	62		Dark yellowish brown, fine to coarse(+) SAND, with fine Gravel, wet, loose, coarsening downwards to fine GRAVEL,	0.0		
†	1022758			with fine to coarse(+) Sand, wet, loose, angular to subrounded	0.0		
16				Bottom of Boring at 16'			
† - -				bottom of borning at 10			
+ +20							
<u> </u>							
24							
<u> </u>		10 6 10 6					
Comments	: Boreno	ie Dackti	ilea with be	entonite chips upon completion.			

Add. Invest. Contractor Storage Area m No: 68VC624 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:**

Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations:

Depth: NM Depth:

At:

Hours Hours

Start Date 12/04/96 End Date 12/04/96

Boring ID

SA-SB-67

Logged By: J. Klapheke Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Kesting

Depth:	At: Hours						
	San	nple Informs	ition	Sample Description			
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
	1022760 1022761 1022762	79		Dark reddish brown, fine to medium SAND, trace(-) Silt, slightly moist, loose, gradually changing to dark yellowish brown, fine to medium SAND, trace coarse Sand, moist, loose	0.0		
+4	1022763	69		Dark yellowish brown, fine to medium SAND, wet, loose,	0.0		
Ī	1022764			coarsening downward to dark yellowish brown, fine to coarse(+) SAND with fine Gravel, wet, loose	0.5		
‡ ************************************	1022765	67		Dark yellowish brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose, occasional iron staining, slight	0.0		
Ī	1022766			coarsening at tip	0.0		
12	1022767	62		As Above	0.0		
<u> </u>	1022768				0.0		
16				Bottom of Boring at 16'			
+ +20							
†	·						
24							
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.			

Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624 **Start Date Boring ID** 12/04/96 Client: Pratt & Whitney **End Date SA-SB-68** Location: East Hartford, CT 12/04/96 **Drilling Contractor:** LEA Logged By: J. Klapheke Drilling Foreman: J. Sw. Drill Rig: Geoprobe 5400 Surface Elevation: Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe J. Sweeton Macro Core Depth: NM Depth: Northing: Easting: At: Hours Hours

Depth:	<i>P</i>	\t:	Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1022769	79		Gravel, dense, slightly moist; 30": Dark yellowish brown, fine to medium SAND, trace coarse Sand, slightly moist,	0.0	
+4	1022771	58		fine to coarse(+) SAND and fine GRAVEL, wet, loose, subangular	0.0	
+ + +8	1022772				0.0	
†	1022773	71		GRAVEL, wet, loose	0.0	
I	1022774				0.0	
+12	1022775	63		Dark yellowish brown, fine Gravel, with fine to coarse(+) Sand	•,	
‡	1022776				-	
+16 - - - - - -				Bottom of Boring at 16'	-	
20						
24						
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.		



Printed On: 1/21/1998

Add. Invest. Contractor Storage Area 68VC624 LEÀ Comm No: Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macro Core Groundwater Observations: Depth: NM At: Hours

Start Date 12/05/96 **End Date** 12/05/96

Boring ID

SA-SB-69

Logged By: J. Klapheke Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:	£	At:	Hours	Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
	1022778 1022779 1022780	77		6": Dark reddish brown, fine to medium GRAVEL with fine to coarse Sand, trace Silt, slightly moist, loose, subrounded; 12": Reddish brown, fine(+) to medium SAND, some Silt, trace fine to medium Gravel, slightly dense, slightly moist; 19": Reddish brown to dark yellowish brown, fine to medium SAND, trace fine Gravel, trace Silt, moist, loose	0.0	
+4	1022781	63		Dark yellowish brown, fine to medium SAND, trace coarse Sand, moist to wet, loose to slightly dense	0.0	
† †	1022782				0.0	
+ 8	1022783	63		Dark yellowish brown, fine to coarse(+) SAND, with fine Gravel, wet, loose, subangular to subrounded	0.0	
† †	1022784				0.0	
‡ ₁₂	1022705				20	
‡	1022785	54		Dark yellowish brown, fine to coarse(+) SAND, some fine Gravel, trace Silt, wet, loose, micaceous	0.0	
†	1022786				0.0	
+16				Bottom of Boring 16'		
20						
+++++++++++++++++++++++++++++++++++++++						
24						
Comments	s: Boreho	le backf	illed with he	entonite chips upon completion.	L	
Comments.	. DUI BI IU	IS DOOR!	mou with De	miconico ompo aport compicacin		

Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624
Client: Pratt & Whitney East Hartford

Location: P&W East Hartford, CT

LEA **Drilling Contractor:** Drilling Method: Geopre Sampling Method: Maca Groundwater Observations: Geoprobe Macro Core

Depth: NM

At: Hours **Start Date** 12/05/96 **End Date** 12/05/96

Boring ID

SA-SB-70

Logged By: J. Klapheke Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Depth:	At: Hours			Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1022788	73		12": Dark reddish brown, fine to coarse SAND, with fine Gravel, some Silt, slightly moist, loose; 23": Dark reddish brown, fine SAND, with Silt, slightly moist, slightly dense	0.0	
+4	1022790 1022791	56		21": Dark reddish brown, fine SAND, with Silt, moist, slightly dense; 6": Dark reddish brown, fine to coarse SAND, some Silt, wet, loose	0.0	
+8	1022792	58		Dark reddish brown, fine to coarse(+) SAND, little fine Gravel, wet, loose, subrounded	0.0	
+	1022793				0.0	
-12	1022794	56		Dark reddish brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose, occasional iron staining, greyish brown in color in last 4" ±	0.0	
16	1022795	:			0.0	
-20				Bottom of Boring 16'		
Comments	: Boreho	le backf	illed with be	entonite chips upon completion.		

Project: Add. Invest. Contractor Storage Area LEA Comm No: 68VC624
Client: Pratt & Whitney East Hartford Start Date **Boring ID** 12/05/96 **End Date SA-SB-71** 12/05/96 Location: P&W East Hartford, CT Logged By: J. Klapheke Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: Drilling Contractor: Drilling Method: J. Sweeton Geoprobe Sampling Method: Macro Core Groundwater Observations:
Depth: NM At: Hours Northing:

Depth: Elevation/ Depth	At: Hours		Hours	₩ Easting:		
	Sample Information			Sample Description	Τ	
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
	1022796	67		2": Reddish brown, fine to medium SAND, trace fine Gravel, slightly moist, loose, lightly rooted; 12": Compacted leaves and brush, rotting; 18": Reddish brown, fine to medium SAND, slightly moist to moist, loose, occasional iron staining	0.0	
	1022798	44		2": As Above; 9": Dark brown, fine SAND and SILT, moist, slightly dense; 10": Reddish brown, fine SAND, with Silt, moist, loose	0.0	
+8 +	1022800	65		Reddish brown to greyish brown, fine to coarse(+) SAND, trace fine Gravel, wet, loose, generally coarsening downward	0.0	
† † †	1022801			uownward .	0.0	
+12	1022802 1022803	63		Reddish brown, fine to coarse(+) SAND, little fine Gravel, wet, loose, coarseing downward to a greyish brown, fine GRAVEL, with fine to coarse(+) Sand, wet, loose	0.0	
16			·	Bottom of Boring 16'		
-24 Comments				entonite chips upon completion.		



Project: Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations:

Depth: NM Depth:

At: At:

Hours Hours Start Date 12/10/96 **End Date** 12/10/96

Boring ID

SA-SB-72

Logged By: **B.** Tomicic

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Easting:

Depth:		At:	Hours	₹ Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1023145	92		Top 1.5': Dark brown, fine SAND, some(-) medium Sand, low spherecity, organics, subrounded, moderately dense, slightly moist; Bottom 6": Light brown, fine SAND, some(-)	0.0
Ī 	1023146	100		medium Sand, poorly sorted, slightly moist, moderately dense As Above, moist	0.1
+4	1023147	50		As Above	0.0
† †	1023148	42		As Above, wet	0.0
- 8	1023149	25		As Above	0.0
Ī	1023150	100		Top 6": As Above; Bottom 1.5': Grey, fine SAND, wet, dense, well sorted	6.8
+12 +	1023151	38		Light brown, fine SAND, wet, dense, poorly sorted	0.0
‡	1023152	100		Top 6": As Above; Bottom 1.5': Grey, varved CLAY, dense, wet	0.0
+16				Bottom of Boring at 16'	
20					
-24				·	
Comment	s: Boreho	ole backfil	led with be	entonite chips upon completion.	

Project: Add. Invest. Fire Training Area 'B' LEA Comm No: 68VC623 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core Depth: NM At: Hours

Start Date 12/10/96 **End Date** 12/10/96

Boring ID SA-SB-73

Logged By: B. Tomicic
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

Depth:		At:	Hours	Rorung: Easting:	
	Sai	mple Informat	ion	Sample Description	<u> </u>
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1023153	92		Top 1': Dark brown, fine SAND, trace(-) medium SAND, dry, loose, poorly sorted, organic material; Bottom 1': Brown, fine SAND, some medium Sand, slightly moist, moderately	0.0
T	1023155	100		dense, poorly sorted As Above	0.0
+4	1023156	25		As Above	0.2
† 	1023157	100		Top 1': As Above; Bottom 1': Greyish brown, fine SAND, some(+) medium Sand, wet, loose, poorly sorted, subrounded	2.2
+8	1023158	33		As Above	8.0
Į Į	1023159	100		As Above	0.2
+ 12	1023160	25		As Above; except Reddish brown and mottled	0.4
† † †	1023161	100		Grey, varved CLAY, wet, dense	0.0
16				Bottom of Boring at 16'	
20	1				
-24					
Commer	nts: Boreho	ole backfil	led with be	entonite chips upon completion.	

GEOLOGIC BORING LOG Page 1 of 1 Project: Add. Invest. Fire Training Area 'B' **Start Date** Boring ID 68VC623 LEA Comm No: 12/11/96 Client: Pratt & Whitney **End Date** SA-SB-74 East Hartford, CT Location: 12/11/96 **Drilling Contractor:** LEA Logged By: B. Tomicic Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Groundwater Observations: Surface Elevation: Northing: Depth: NM Hours Depth: Hours Easting: At: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 1023164 58 Top 3": Dark brown, fine SAND, some(-) medium Sand, slightly moist, loose, organic material; Bottom 1': Brown, fine SAND, trace medium Sand, slightly moist, loose, organic matter, poorly sorted 1023165 100 0.0 As Above 1023166 25 0.0 As Above 1023167 92 13.0 Top 1': As Above; Bottom 1': Greyish brown, fine SAND, trace(+) medium Sand, slightly moist, loose, poorly sorted, subangular, grey/black staining, rank odor 1023168 33 22.0 As Above

As Above

poorly sorted

dense

Top 1': As Above; Pinkish brown, fine SAND and(+) medium SAND, wet, loose, low sphericity, subangular,

Top 6": As Above; Bottom 1.5': Grey, varved CLAY, wet,

Comments: Borehole backfilled with Bentonite chips upon completion.

Bottom of Boring at 16'

1023169

1023170

1023171

18

92

67

75

50.0

1.0

0.2

Add. Invest. Fire Training Area 'B' Project:

68VC623 LEA Comm No: Client: Pratt & Whitney

Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Macro Core

Sampling Method: Macr Groundwater Observations:

Depth: NM At: Hours Depth: At: Hours

Start Date 12/11/96 **End Date** 12/11/96

Boring ID

SA-SB-75

Logged By: B. Tomicic
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Easting:

Rievation/Depth	Sample No. 1023172 1023173	Recovery (x) 50	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 3": Dark brown, fine SAND, trace(-) medium Sand, slightly moist, loose, organics; Bottom 9": Brown, fine SAND, slightly moist, loose As Above	(ppm) 0.0
Depth	1023172	50	Blows 76"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 3": Dark brown, fine SAND, trace(-) medium Sand, slightly moist, loose, organics; Bottom 9": Brown, fine SAND, slightly moist, loose	0.0
4	1023173	100		slightly moist, loose, organics; Bottom 9": Brown, fine SAND, slightly moist, loose	
8				As Above	00
-8	1023174	33	1		0.0
8				Greyish brown, fine SAND and(-) medium Sand, slightly moist, loose, poorly sorted	0.0
+12	1023175	100		Top 1.5': As Above; Bottom 6": Grey, fine SAND, some(+) medium Sand, moist, loose, poorly sorted, slight rank odor, mottled	10.0
-12	1023176	50		Grey, fine SAND, trace(+) medium Sand, wet, loose, poorly sorted, rank odor	26.0
+12 -	1023177	100		As Above	22.0
1	1023178	42		As Above	6.0
	1023179	83		Top 8": Reddish brown, fine SAND and(+) medium SAND, wet, loose, poorly sorted; Bottom 1': Grey, varved CLAY, wet, dense	0.0
16			·	Bottom of Boring at 16'	
20					
24					
		1 1			

Add. Invest. Fire Training Area 'B' Start Date Project: **Boring ID** LEA Comm No: 68VC623 12/18/97 Client: Pratt & Whitney **End Date SA-SB-76** Location: East Hartford, CT 12/18/97 Logged By: **Drilling Contractor:** B. Tomicic LEA Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Northing: Depth: NM Hours At: Depth: Hours Easting: At: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows Moisture, Sorting, Sphericity, Angularity, covery (%) (ppm) Sedimentary Structures, Density, Cohesiveness 1023859 83 0.0 Top 6": Dark brown, fine SAND, some(-) medium Sand, loose, slightly moist, processed stone, organics; Bottom 14": Light brown, fine SAND, trace(+) medium Sand, loose, slightly moist, poorly sorted 100 0.0 1023860 Top 1': As Above; Bottom 1': As Above, wet 0.0 1023861 50 As Above; moist 18 1023862 50 Top 9": As Above; Bottom 3": Grey, medium SAND, some(-) fine Sand, loose, wet, poorly sorted, gray/black staining, rank odor 1023863 22 50 As Above 1023864 100 Grey, fine SAND, trace(+) medium Sand, wet, loose, poorly sorted, grey/black staining, rank odor 2 1023866 20 50 As Above 1023867 100 0.0 Top 2": As Above; 7": Reddish brown, fine SAND and(-) medium SAND, wet, loose, poorly sorted, mottling; Bottom 15": Olive grey, varved CLAY, wet, dense, stiff 16 Bottom of Boring at 16' 20 24 Borehole backfilled with Bentonite chips upon completion. Comments:

ocation: rilling Co rilling M	ratt & White East Hart Martente Contractor: ethod:	tney East ford, CT LEA leoprobe Macro C			Drilling Forema	SA-SB-7 B. Tomicic an: J. Sweeton oprobe 5400	7
ampling I roundwa epth: N epth:	ter Observa M		Hours Hours		Surface Elevation Northing: Easting:	on:	
evation/ epth	Sample No.	Recovery	Blows	Moistur	Sample Description ary Grain Size, Secondary e, Sorting, Sphericity, Ang ry Structures, Density, Co	cularity,	(ppm
°	1023868	83		moist, loose, prod	wn, fine SAND, trace(-) sessed, stone, organics; and, slightly moist, loose	Brown, fine SAND,	0.0
†	1023869	100		As Above			0.0
+4				No Recovery		,	
† †	1023871	75		Top 1': As Above medium Sand, mostaining, rank odd	; Bottom 6": Grey, fine sist, loose, poorly graded	SAND, trace(+) , grey/black	4.0
+8	1023872	58		As Above, wet			5.0
+	1023873	67		As Above			10.0
12	1023874	25		Reddish brown, fi loose, poorly grad	ne SAND, trace(-) mediu led, mottling	m Sand, wet,	2.0
	1023875	0		Top 1': As Above wet, dense, stiff	; Bottom 1': Olive, grey,	varved CLAY,	4.0
+16				Bottom of Boring	at 16'		
20							
-24							
mments	: Boreho	le backfill	ed with Be	ntonite chips upon	completion.		<u> </u>

Project: Add. Invest. Fire Training Area 'B'
LEA Comm No: 68VC623
Client: Pratt & Whitney East Hartford **Start Date** Boring ID 2/18/96 - BORGER **End Date SA-SB-78** Location: East Hartford, CT 12/18/96 Drilling Contractor: Drilling Method: Sampling Method: Logged By: B. Tomicic
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: Geoprobe J. Sweeton Macro Core **Groundwater Observations:**

Recovery (2) 6 50 7 100 9 33 0 25 1 100	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Dark brown, fine SAND, trace(-) coarse Sand, slightly moist, loose, poorly sorted, organics, processed stone Brown, fine SAND, trace(-) medium Sand, slightly moist, loose, poorly sorted No Recovery Grey, fine SAND and(-) medium SAND, moist, loose, poorly sorted, grey/black staining, rank odor As Above, wet	4.0 4.0
6 50 7 100 9 33 0 25	Blows	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Dark brown, fine SAND, trace(-) coarse Sand, slightly moist, loose, poorly sorted, organics, processed stone Brown, fine SAND, trace(-) medium Sand, slightly moist, loose, poorly sorted No Recovery Grey, fine SAND and(-) medium SAND, moist, loose, poorly sorted, grey/black staining, rank odor As Above, wet	4.0
7 100 9 33 0 25		Brown, fine SAND, trace(-) medium Sand, slightly moist, loose, poorly sorted No Recovery Grey, fine SAND and(-) medium SAND, moist, loose, poorly sorted, grey/black staining, rank odor As Above, wet	4.0
9 33		No Recovery Grey, fine SAND and(-) medium SAND, moist, loose, poorly sorted, grey/black staining, rank odor As Above, wet	4.0
0 25		Grey, fine SAND and(-) medium SAND, moist, loose, poorly sorted, grey/black staining, rank odor As Above, wet	
0 25		sorted, grey/black staining, rank odor As Above, wet	
			2.0
1 100		A - A -	l
		As Above	6.0
2 25		As Above	3.0
3 100		Top 18": Reddish brown, fine SAND, some(-) medium Sand, wet, loose, poorly sorted, mottled; Bottom 6": Olive grey, varved CLAY, wet, dense, stiff	3.0
		Bottom of Boring at 16'	
	hole hackfi	hole backfilled with B	hole backfilled with Bentonite chips upon completion.

	·	·		Tage 1 of	
Project:	South Airp	ort Fill Ar	ea	Start Date Rowing	ID
LEA Comn	n No: 68 ratt & Whit	VC628		12/19/90 Ful Data	
Cucut: Pr Location:	East Hart	ford CT		12/19/96 SA-SB	-80
Drilling Co Drilling Me Sampling N	ntractor: ethod: G Method: er Observa M A	LEA ieoprobe Macro C	ore Hours Hours	Logged By: M. Budnick Drilling Foreman: J. Sweet Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	on
Deptili.				Sample Description	
Elevation/ Depth	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1023900	95		Top 8": Dark brown, fine SAND, trace(-) medium Sand, trace Silt, loose, organics, damp; 8-24": Brown, fine SANI trace(-) medium Sand, slightly moist	ο, ο
Ī	1023901	95		As Above	0
†4	1023902	90		As Above	0
<u>†</u>	1023903	90		As Above	0
+8	1023904	85		As Above	0
+ +	1023905	85		Top 18": As Above; Bottom 6": Dark brown black, medium to coarse SAND, mottling, loose, moist	n °
+12	1023906	85		Top 12": As Above, wet; Bottom 12": Brown, fine SAND, trace(+) medium Sand, wet	0
†	1023907	85		As Above	0
+16 + + + + + +				Bottom of Boring at 16'	
20					
† + +					
24					
Comments	: Boreho	le backfill	ed with be	ntonite chips upon completion.	

Comments:

×

Borehole backfilled with bentonite chips upon completion.

	South Airpo		ea	Start Date Boring	m D
LEA Comr	n No: 68' ratt & Whit	VC628		12/20/90	
ocation:	East Harti	ford, CT		12/20/96 SA-SB-	82
Orilling Co Orilling Mo Sampling No Groundwat Oepth: No Oepth:	ethod: G Method: ter Observat M A	LEA seoprobe Macro C tions: \t: \t:	ore Hours Hours	Logged By: M. Budnick Drilling Foreman: J. Sweete Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	n
-	Sam	ple Informati	on	Sample Description	
levation/ lepth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
†°	1023933	80		Top 8": Dark brown, fine SAND, trace(+) medium Sand, trace(+) Silt, moist, loose, organics; Bottom 16": Brown, fine SAND, trace(-) medium Sand, slightly moist, tight	
‡	1023934	80		As Above	
+4	1023935	40		Top 3": As Above; Bottom: Very dark brown, fine SAND, trace(+) Silt, damp, tight	
†	1023936 1023941	40	- " " "	Red brown, fine SAND, trace(+) medium Sand; Bottom 3" Wet, above damp, tight	
8	1023937	85		As Above; Bottom 3": Red brown, medium SAND, trace(+ fine Sand, wet, loose),
†	1023938	85		As Above; Bottom 2": Coarse SAND	
+12	1023939	85		Top 1": As Above; Bottom: Red brown, medium SAND, trace(-) fine Sand, wet, loose	
† †	1023940	85		As Above	
+ 16 - - - - - -				Bottom of Boring at 16'	
20					
† †		-			
Comments	: Boreho	le backfill	led with be	ntonite chips upon completion.	

Project: South Airport Fill Area LEA Comm No: 68VC628 **Start Date** Boring ID 01/07/97 Client: Pratt & Whitney **End Date SA-SB-83** Location: East Hartford, CT 01/07/97 Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** Geoprobe J. Sweeton **Drilling Method:** Sampling Method: Macr Groundwater Observations: Depth: NM At: Macro Core Northing:

Depth: Depth:	NM	At: At:	Hours Hours	Northing: Easting:	
	S	ample Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T °	1023943	100		Top 6": Topsoil; Middle 8": Brown, medium to fine SAND, trace(+) very fine Sand, organics, moist, loose; Bottom 10": Brown, fine SAND, trace(-) medium Sand, moist, loose	0
Ī	1023944	75		As Above	1.0
+4	1023945	50		Top 6": Brown, medium to fine SAND, trace(-) very fine Sand, moist, dense; Middle 6": Brown, fine SAND, trace(+) medium Sand, dense, wet	0
‡	1023946	42		Top 4": Brown, medium to fine SAND, loose, wet; Middle 14": Wood push probe through; Bottom 6": As Above top 4"	0
+8	1023947	50		Top 6": Brown, medium to fine SAND, trace(-) coarse Sand, wet, loose; Bottom 6": As Above with 3" Cobble in sample	0
†	1023948	50		Grey, fine to medium SAND, wet, loose	0
12	1023949 1023952	83		Orange, medium to fine SAND, loose, wet	0
‡	1023950	83		As Above	0
†16 †	•			Bottom of Boring at 16'	_
20	,				
- 24	ı				
Comme	nts: Boreh	ole backfi	lled with be	entonite chips upon completion.	



LEA Com	South Airp m No: 68 ratt & Whit East Hart	VC628 :ney	rea	Start Date 01/08/97 End Date 01/08/97 SA-SB-	
Drilling Co Drilling M Sampling 1	ethod: G Method: ter Observa	LEA ieoprobe Macro C		Logged By: D. Brisson Drilling Foreman: J. Sweete Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	n
evation/		Recovery		Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity,	
	Sample No.	(x)	Blows /6"	Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1023953	8		Top 4": Topsoil; Bottom 8": Brown, fine SAND, trace(+) medium Sand, organics, moist, loose	0
†	1023954	50		Brown, fine SAND, trace(-) medium Sand, moist, loost, Cobble in shoe	0
+4	1023955	75		Top 8": As Above; Bottom 10": Brown, medium to fine SAND, trace(-) coarse Sand, wet at bottom 1"	0.
‡	1023956	75		As Above, wet	0
+8	1023957	75		Brown, medium to fine SAND, trace(-) coarse Sand, trace(-fine Gravel, wet, loose) 0
‡	1023958	75		Top 10": As Above; Bottom 8": Brown, coarse to fine SAND, wet, loose	0
+12	1023959	75		Brown, medium to fine SAND, trace(-) coarse Sand, wet	0
‡	1023960	75		As Above .	
+16 + + + + + + + + 20				Bottom of Boring at 16'	
-24					
Comments	s: Boreho	le backfil	led with be	entonite chips upon completion.	

Project: South Airport Fill Area
LEA Comm No: 68VC628
Client: Pratt & Whitney East Hartford

Location: P&W East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations: Depth: NM At:

Hours

Start Date 01/08/97 End Date 01/08/97

Boring ID

SA-SB-85

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing:

Sample Information Sample Information Sample Description	Depth:		At:	Hours	Easting:	
Moisture, Sorting, Sphericity, Angularity, Sphericity, Angularity, Sphericity, Angularity, Sphericity, Angularity, Sphericity, Cohestveness		San	nple Informat	tion	Sample Description	
Sand, trace organics, moist; 4*: Concrete rubble 1023962 75 Top 10*: As Above; Bottom 8*: Brown, medium to fine SAND, trace(-) coarse Sand, trace(-) fine Gravel, moist 1023963 42 Top 4*: Brown, fine to very fine SAND, trace(-) medium Sand, dense, moist; Bottom 6*: Brown, medium to fine SAND, trace(+) coarse Sand, loose, moist 1023964 50 Brown, medium to fine SAND, moist, loose 1023965 50 Brown, coarse to fine SAND, wet, loose, trace(-) fine Gravel, iron staining in Bottom 4* 1023967 75 Top 10*: Brown, fine SAND, trace(-) medium Sand, wet, dense; Bottom 8*: Brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1023968 75 Brown, fine to medium SAND, wet, loose 1023969 75 Brown, fine to medium SAND, wet, loose 1023969 75 Brown, fine to medium SAND, wet, loose 1023969 75 Brown of Boring at 16*		Sample No.	Recovery (X)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm)
SAND, trace(-) coarse Sand, trace(-) fine Gravel, moist	0	1023961	75			0
Sand, dense, moist; Bottom 6*: Brown, medium to fine SAND, trace(+) coarse Sand, loose, moist 1023964 50 Brown, medium to fine SAND, moist, loose 1023965 50 As Above, wet 1023966 50 Brown, coarse to fine SAND, wet, loose, trace(-) fine Gravel, iron staining in Bottom 4** 1023967 75 Top 10*: Brown, fine SAND, trace(-) medium Sand, wet, dense; Bottom 8*: Brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1023968 75 Brown, fine to medium SAND, wet, loose 1023969 75 Brown, fine to medium SAND, wet, loose 20 20 20	‡	1023962	75	·		0
1023965 50 As Above, wet 0	+4	1023963	42		Sand, dense, moist; Bottom 6": Brown, medium to fine	0
1023966 50 Brown, coarse to fine SAND, wet, loose, trace(-) fine Gravel, iron staining in Bottom 4" 112 1023967 75 Top 10": Brown, fine SAND, trace(-) medium Sand, wet, dense; Bottom 8": Brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1023968 75 Brown, fine to medium SAND, wet, loose 1023969 75 Bottom of Boring at 16'	‡	1023964	50		Brown, medium to fine SAND, moist, loose	0
Gravel, iron staining in Bottom 4* 12	***************************************	1023965	50		As Above, wet	0
Top 10": Brown, fine SAND, trace(-) medium Sand, wet, dense; Bottom 8": Brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 1023969 75 Brown, fine to medium SAND, wet, loose 0 Bottom of Boring at 16'		1023966	50		Brown, coarse to fine SAND, wet, loose, trace(-) fine Gravel, iron staining in Bottom 4"	0
1023969 Bottom of Boring at 16'	12	1023967	75	·	dense; Bottom 8": Brown, medium to fine SAND, trace(+)	•
Bottom of Boring at 16'	†	1023968 1023969	75		Brown, fine to medium SAND, wet, loose	0
Comments: Borehole backfilled with bentonite chips upon completion.					Bottom of Boring at 16'	
	Comments	: Boreho	le backfil	led with be	ntonite chips upon completion.	1

Project: South Airport Fill Area LEA Comm No: 68VC628

Client: Pratt & Whitney East Hartford
Location: P&W East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations:

Depth: NM Hours Start Date 01/08/97 End Date 01/08/97

Boring ID

SA-SB-86

Logged By: D. Brisson

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth:	1	At:	Hours	₩ Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1023972	75		Top 3": Topsoil; Bottom 15": Brown, fine SAND, trace(+) medium Sand, trace organics, loose, moist	
‡	1025973	75		As Above Soil; liner material, with brick and coal fragments in Bottom 5" of sample	
+4	1023974	50		Brown, fine SAND, little medium Sand, moist, trace organics, loose	
+ + +	1023975	60		Brown, fine SAND, trace(-) very fine Sand, moist, trace organics, loose, Cobbles in sample	
+8	1023976	50		Top 10": Grey, medium to fine SAND, trace(-) very fine Sand, trace(-) coarse Sand, wet, trace(-) organics, loose; Bottom 2": Dark brown, medium to fine SAND, dense, wet	
† 	1023977	50		Top 8": As Above; Middle 4": Black, fine SAND, trace(-) Silt, trace(+) medium Sand, wet, dense; Bottom 4": Brown, fine SAND, trace(-) medium Sand, wet, loose	
+12	1023978	76		Top 15": As Above; Bottom 3": Grey, fine SAND, trace(+) very fine Sand and Silt, trace organics, wet, dense	
‡	1023979	83	·	Dark grey to black, fine SAND, trace(+) very fine Sand, trace organics, wet, dense	i
+16				Bottom of Boring at 16'	
20					
I I					
-24					
Comments	: Boreho	le backf	illed with be	entonite chips upon completion.	<u> </u>

Start Date **Project:** South Airport Fill Area Boring ID 01/08/97 LEA Comm No: 68VC628 Client: Pratt & Whitney East Hartford **End Date** SA-SB-87 Location: P&W East Hartford, CT 01/08/97 Logged By: D. B Drilling Foreman: D. Brisson **Drilling Contractor:** Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Macro Core Sampling Method: Groundwater Observations: Surface Elevation: Depth: NM At: Hours Northing: Hours Easting: At: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1023980 75 Top 4": Topsoil; Bottom 14": Brown, fine SAND, trace(+) medium Sand, trace organics, moist, loose 1023981 Brown, fine SAND, trace(-) very fine Sand, trace organics, moist, moderately dense 1023982 63 Top 2": Red brown, fine to medium SAND, moist, loose; Bottom 13": Brown, fine SAND, trace(-) very fine Sand, trace organics, moist, moderately dense, trace Gravel 63 1023983 As Above 1023984 Dark brown, fine to very fine SAND, trace(-) Silt, trace(-) medium Sand, trace organics, wet, moderately dense 1023985 63 Top 13": As Above; Bottom 2": Brown, fine SAND, trace(-) medium Sand, wet, moderately dense 1023986 75 Top 12": Alternating bands of grey and black, fine SAND, trace(+) medium Sand, wet, loose; Bottom 6": Grey, medium to fine SAND, trace(-) coarse Sand, wet, loose Printed On: 1/20/1998 1023987 75 As Above Bottom of Boring at 16' 20 24 Comments: Borehole backfilled with bentonite chips upon completion.



Project: South Airport Fill Area LEA Comm No: 68V7079

Client: Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core

06/16/97 **End Date** 06/16/97

Boring ID

SA-SB-88

Logged By: J. Klapheke Drilling Foreman: J. Trze Drill Rig: Geoprobe 5400 J. Trzaski

Surface Elevation:

Start Date

Depth: Depth:		At: At:	Hours Hours	Northing: Easting:	
	Sar	nple Informat	ion	Sample Description	Ι
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1635876	88		Brown to black, fine SAND and SILT, dry to slightly moist, loose, trace fine Gravel (top 12"), rooted	1.6
+ +	1635877				0.2
+4	1635878	83		Brown to yellowish brown, fine to coarse SAND, little Silt, trace fine Gravel, moist, loose, slight coarsening downward	0.0
+++++++++++++++++++++++++++++++++++++++	1635879				0.6
+ + +	1635880	83		Brown, fine to coarse SAND with fine Gravel, wet, loose, slight coarsening downward	0.0
† †	1635881				0.8
12	1635882	79		Brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose, occasional iron staining	0.0
‡	1635883				0.0
16				Bottom of Boring at 16'	
20					
† 					
-24					
Comments	: Boring	backfilled	i with bent	onite	·

Project: South Airport Fill Area **Start Date Boring ID** LEÀ Comm No: 68V7079 06/16/97 Client: Pratt & Whitney East Hartford-JBK **End Date SA-SB-89** Location: P&W East Hartford, CT 06/16/97 Logged By: J. Klapheke **Drilling Contractor:** LEA J. Trzaski Drilling Foreman: Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Northing: Depth: Hours At: Depth: Hours Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1635884 92 1.6 Brown to drk brown, fine to medium SAND and SILT with coarse Gravel, dry to slightly moist, dense, concrete fragments 1635885 1.4 1635886 2.0 Brown, fine to coarse SAND, trace Silt, trace fine Gravel, moist, loose 1635887 2.3 1635888 0.0 Brown, fine to coarse(+) SAND with fine Gravel, wet, loose to slightly dense, occasional iron staining 1635889 0.0 12 0.0 1635890 Brown to dark brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose, occasional iron staining, slight coarsening downward 0.0 1635891 6 Bottom of Boring at 16' 20 Boring backfilled with bentonite Comments:



1/20/1998

GEOLOGIC BORING LOG Page 1 of 1 South Airport Fill Area Start Date Project: **Boring ID** 68V7079 06/16/97 LEA Comm No: **End Date** Client: Pratt & Whitney East Hartford-JBK **SA-SB-90** Location: P&W East Hartford, CT 06/16/97 LEA **Drilling Contractor:** Logged By: J. Klapheke **Drilling Method:** Drilling Foreman: Geoprobe J. Trzaski Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Northing: Depth: Hours At: Depth: At: Hours Easting: Sample Description Sample Information Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1635892 83 Brown, fine SAND and SILT, trace fine to coarse Gravel (top 1.2 12"), dry to moist, loose, rooted 1635893 2.6 1635894 0.5 Brown, fine to coarse SAND, trace fine Gravel, moist to wet, loose 1635895 1.6 1635896 58 1.1 Brown to dark brown, fine to coarse(+) SAND, some fine Gravel, wet, loose to slightly dense, occasional iron staining 1635897 2.2 12 1635898 1.3 As Above, and fine Gravel 1635899 8.0 Printed On: 1/20/1998

Bottom of Boring at 16'

Comments: Boring backfilled with bentonite

16

20

24

Project: South Airport Fill Area
LEA Comm No: 68V7079
Client: Pratt & Whitney East Hartford-JBK Location: P&W East Hartford, CT Drilling Contractor: LE/ Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe Macro Core Depth: At: Hours

Start Date 06/17/97 End Date 06/17/97

Boring ID **SA-SB-91**

Logged By: J. Trzaski Drilling Foreman: J. Klap Drill Rig: Geoprobe 5400 Surface Elevation: J. Klapheke

Northing:

Sample No. 1635904 1635905 1635907 1635909 1635910 1635911	Recovery (X) 46 38	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Brown, fine SAND, little Silt, trace organic matter, trace process stone, fine and coarse Gravel and brick pieces at bottom 4", dry to slightly moist, loose Brown to light yellowish brown, fine SAND, little Silt, trace(-) wood pieces, Cobble lodged in bottom, slightly moist to moist, loose Dark yellowish brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose Top 10": Dark brown, SILT and very fine SAND, little organic matter, moist, moderately dense; Bottom 8": Grey, medium to fine SAND, trace organic matter, wet, loose	2.1 2.1 2.1
1635904 1635905 1635906 1635907 1635908	38 75	Blows /6*	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Brown, fine SAND, little Silt, trace organic matter, trace process stone, fine and coarse Gravel and brick pieces at bottom 4", dry to slightly moist, loose Brown to light yellowish brown, fine SAND, little Silt, trace(-) wood pieces, Cobble lodged in bottom, slightly moist to moist, loose Dark yellowish brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose Top 10": Dark brown, SILT and very fine SAND, little organic matter, moist, moderately dense; Bottom 8": Grey,	2.1
1635905 1635906 1635907 1635908 1635909 1635910	75		Brown to light yellowish brown, fine SAND, little Silt, trace(-) wood pieces, Cobble lodged in bottom, slightly moist to moist, loose Dark yellowish brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose Top 10": Dark brown, SILT and very fine SAND, little organic matter, moist, moderately dense; Bottom 8": Grey,	2.1
1635908 1635908 1635909 1635910	76		trace(-) wood pieces, Cobble lodged in bottom, slightly moist to moist, loose Dark yellowish brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose Top 10": Dark brown, SILT and very fine SAND, little organic matter, moist, moderately dense; Bottom 8": Grey,	3.1
1635909 1635910	76		Top 10": Dark brown, SILT and very fine SAND, little organic matter, moist, moderately dense; Bottom 8": Grey,	<u>.</u>
			organic matter, moist, moderately dense; Bottom 8": Grey,	2.
1635911			medicin to the SAMD, trace organic marter, wer, loose	1
	75		Greyish brown, fine to coarse SAND, trace Silt, trace(-) organic matter, wet, loose	2.
1635912	75		Brownish yellow, medium(+) to fine SAND, wet, loose	3.0
			Bottom of Boring at 16'	
_				Bownsh yollow, modulity to mile onto, wee, loose

Project: South Airport Fill Area LEA Comm No: 68V7079 Start Date **Boring ID** 06/17/97 Client: Pratt & Whitney East Hartford-JBK End Date SA-SB-92 Location: P&W East Hartford, CT 06/17/97 J. Trzaski LEA Logged By: **Drilling Contractor:** Drilling Method: Geoprobe Drilling Foreman: J. Klapheke Macro Core Drill Rig: Geoprobe 5400 Sampling Method: Groundwater Observations: Surface Elevation: Northing: Hours Depth: Át: At: Hours Easting: Depth: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1635913 92 Top 14": Brown, fine SAND, some Silt, trace(-) fine and 1.6 coarse Gravel, trace organic matter, dry, loose; Bottom 8": Brownish yellow, fine SAND, trace silt, slightly moist, 1.4 92 1635914 Top 6": Same as last 8"; Middle 3": Very pale brown, fine to coarse SAND, dry, loose; Bottom 13": Same as top 6": moist, moderately dense 1635915 100 1.4 Yellowish brown, fine to very fine SAND, little Silt, slightly moist to moist, moderately dense 1635916 100 1.8 Top 12": Dark yellowish brown, fine to very fine SAND, little Silt, moist, moderately dense; Bottom 12": Dark brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose R 1.4 1635917 62 Dark brown, fine SAND, some Silt, trace(-) medium Sand, trace organic matter, wet, loose 1.9 1635918 62 Top 11": As Above; Bottom 4": Brownish yellow, fine to coarse SAND, trace Silt, wet, loose 12 1635919 83 Light brownish yellow, medium(+) to fine SAND, trace 2.3 coarse Sand, wet, loose 2.7 1635920 83 Brownish yellow, fine to coarse SAND, wet, loose 16 Bottom of Boring at 16' 20 Comments:

Primed

Boring ID

SA-SB-93

J. Klapheke

South Airport Fill Area m No: 68V7079 Project: South **Start Date** 06/17/97 End Date Client: Pratt & Whitney East Hartford-JBK Location: P&W East Hartford, CT 06/17/97 Logged By: J. Trzaski Drilling Foreman: J. Klar Drill Rig: Geoprobe 5400 Drilling Contractor: Drilling Method: LEA Geoprobe Macro Core Sampling Method: Surface Elevation: **Groundwater Observations:** Depth: Northing: At: Hours Easting:

Depth:		At:	Hours	₹ Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T °	1635921	75		Brown, fine to very fine SAND, some Silt, trace organic matter, dry to slightly moist, loose	1.3
‡	1635922	75		Top 9": Yellowish brown, fine SAND, trace Silt, slightly moist, loose; Bottom 9": Dark yellowish brown, fine SAND, trace medium Sand, trace Silt, moist, moderately dense	1.4
1	1635923	75		Same as last 9"	1.5
‡ ‡	1635924	75		Top 2": Black asphalt; Bottom 16": Dark yellowish brown, fine SAND, some Silt, trace(-) medium Sand, moist to wet, loose	1.2
**	1635925	62		Dark yellowish brown, fine(+) to medium SAND, trace Silt, trace organic matter, wet, loose	1.7
ļ.,	1635926	62		Top 5": Dark brown, SILT, little organic matter, wet, moderately dense; Middle 5": Same as 8-10'; Bottom 5": Same as top 5", wood pieces at bottom	1.7
+12	·			No Recovery	
‡				No Recovery	-
+16		+		Bottom of Boring at 16'	
Ī					
20					
24					
‡					
Comments	<u>. </u>	<u> </u>			1

Start Date Project: South Airport Fill Area Boring ID LEA Comm No: 68V7079 06/18/97 Client: Pratt & Whitney East Hartford-JBK **End Date** SA-SB-94 P&W East Hartford, CT 06/18/97 Location: Logged By: **Drilling Contractor:** LEA J. Trzaski Drilling Foreman: Drilling Method: Geoprobe J. Klapheke Drill Rig: Sampling Method: **Macro Core** Geoprobe 5400 **Groundwater Observations:** Surface Elevation: Depth: Northing: At: Hours Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes. Elevation/ Depth Sample No. ecovery (%) Blows /6" Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1635933 50 1.6 Brown, fine SAND, little Silt, trace organic matter (top 12"), trace fine and coarse Gravel, Cobble at bottom, dry to slightly moist, loose 1635934 1.4 1635935 50 1.8 Brown, fine SAND, little Silt, slightly moist, loose 1635936 50 1.6 Strong brown, fine SAND, little Silt, slightly moist to moist, moderately dense 1635937 1635958 92 1.6 Dark yellowish brown, fine SAND, little Silt, trace(-) medium Sand, trace organic matter, wet, loose 1635939 92 1.7 Top 8": As Above; Middle 10": Dark brown to black, SILT with very fine Sand, trace organic matter, moist, moderately dense; Bottom 4": Greyish brown, fine to medium SAND, 12 trace Silt, trace organic matter, wet, loose 1635940 1.3 Top 7": Black, SILT with very fine to fine Sand, little orgtanic matter, wet, loose; Bottom 8": Greyish brown to light olive brown, fine to coarse SAND, wet, loose 1635941 62 1.5 Same as last 8" 16 Bottom of Boring at 16' 20 Comments:

Printed

On: 1/20/1998

South Airport Fill Area Project: 68V7079 LEÀ Comm No: Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor: LEA Drilling Method: Geoprobe Macro Core

Sample Information

Sampling Method: Groundwater Observations:

Depth: Depth:

Hours At: At: Hours

Start Date 06/18/97 **End Date** 06/18/97

Boring ID SA-SB-95

Logged By: J. Trzaski

Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400

Surface Elevation:

	Northing: Easting:	
	Sample Description	Γ
Moist	nary Grain Size, Secondary Grain Sizes, re, Sorting, Sphericity, Angularity, ary Structures, Density, Cohesiveness	
	, fine SAND, trace(+) Silt, trace organic cess stone, fine and coarse Gravel (bottom	Γ

Elevation/ Depth Blows ecovery (%) (ppm) S 1635942 62 6.0 Yellowish matter, lit 5"), dry to slightly moist, loose 1635943 1635944 50 9.8 Reddish brown to brown, fine SAND, trace medium Sand, trace(-) coarse Sand, trace(-) fine and coarse Gravel, slightly moist, loose 1635945 6.6 1635946 62 Top 10": As Above, moist, loose; Bottom 5": Dark brown to black, fine SAND, some Silt, trace medium Sand, trace organic matter, moist, loose 1635947 62 1.4 Top 4": Same as last 5"; Middle 5": Black, SILT, some very fine to fine Sand, trace organic matter, moist, moderately dense; Bottom 6": Same as top 4", wet 12 1635948 96 Top 8": Same as last 6"; Bottom 15": Dark brown, fine to coarse(-) SAND, trace Silt, wet, loose 1.3 1635949 96 Light olive brown, fine to coarse(-) SAND, wet, loose Bottom of Boring at 16' Comments:

Cole

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: LEAD Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: LEA Geoprobe Macro Core

Start Date 06/18/97 End Date 06/18/97

Boring ID SA-SB-96

Logged By: J. Trzaski
Drilling Foreman: J. Klapheke
Drill Rig: Geoprobe 5400
Surface Elevation:

Depth: Depth:		At: At:	Hours Hours	Northing: Easting:	
	Sar	nple Informat	ion	Sample Description	
Elevation/ * Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1635950	67	1	Yellowish brown to drk yellowish brown, fine SAND, little Silt, trace organic matter, dry to slightly moist, loose to moderately dense, concrete pieces at 8"	4.5
‡	1635951	67		Top 8": As Above; Bottom 8": Light brown, fine SAND, trace(-) medium Sand, slightly moist, loose	7.2
+4	1635952	62		As Above	8.0
† †	1635953	62		As Above, 2" bituminous asphalt at bottom	5.6
 8	1635954	79		Dark brown, fine SAND, some Silt, little organic matter, wet, loose	5.5
†	1635955	79		Top 4": As Above; Bottom 15": Drk brown, SILT, some very fine Sand, little organic matter, moist, moderately dense	2.7
+12 1	1635956	71		Same as last 15"	3.0
 	1635957	71		Top 6": Greyish brown, fine to very fine SAND, wet, loose; Bottom 11": Light olive brown, medium to fine SAND, wet, loose	1.6
+ 16				Bottom of Boring at 16'	
+ 20				·	
24					
Comments	<u> </u>				L

Project: South Airport Fill Area 68V7079 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** Hours Depth:

Start Date 6/20/97 End Date 06/20/97

Boring ID

SA-SB-97

Logged By: M. Busa
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:

J. Klapheke

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T°	1635959	96		Dark brown, fine(+) to medium SAND, trace(+) Silt, roots, loose, dry	10.3
†	1635960	96		Dark brown to dark yellowish brown, fime(+) to medium SAND, little(-) Silt, slightly moist, loose to slightly dense	11.3
+4	1635961	75		0-6": Dark brown, fine SAND, little Silt; Dark yellowish brown, fine to medium SAND, trace Silt, slightly moist, slightly dense; Dark yellowish brown, fine to medium(+) to	11.1
Ī	1635962			coarse(-) SAND, trace fine Gravel, moist, slightly dense	9.3
+8	1635963	79		0-6": Same as above; 6-8": Dark brown, fine(+) to medium SAND, little(+) Silt; 8"-2': Brown, fine(+) to medium SAND, wet, fairly dense; 2-3': As Above; 3-4': Yellowish	8.9
†	1635964			brown, fine to medium(+) to coarse SAND, wet, slightly dense	4.7
+12	1635965	100		Dark greyish brown, fine to medium to coarse(-) SAND, trace very fine Gravel, wet, fairly loose	4.0
ŧ	1635966	100		Dark yellowish brown, fine(-) to medium(+) to coarse Sand, little(-) to trace fine Gravel, wet, fairly dense	1.5
16		-		15-16': Same as above except no GRAVEL and fine to medium SAND only.	
+ + + + + + + + + + + + + + + + + + + +				Bottom of Boring at 16'	
20					
 					
+24					
Comments	:	1			L

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT LEA

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:**

Depth:

At:

Hours ₹

t Date 0 /20/97 Em Date 00/20/97

Boring ID

SA-SB-98

Logged By: M. f Drilling Foreman: M. Busa

J. Klapheke

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:		At: At:	Hours	Easting:	
	Sam	aple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1 63 5967	83		0-6": Dark brown, fine(+) to medium SAND, little Silt, dry, loose, roots; Strong brown, fine to medium SAND, dry, fairly loose	7.4
‡	1635968	83		Same as above	10.6
+4	1635969	69		0-1': Strong brown, fine to medium SAND, loose, slightly damp; 1'-1'2": Very dark brown, fine(+) to medium SAND, lit,le Silt, dense, moist	10.6
†	1635970	69		Light olive brown, fine to medium(+) SAND, trace coarse Sand, moist, slightly dense; 7-8': Brown, fine(+) to medium SAND, dense, moist	4.2
+8				No Recovery	
†				No Recovery	
+12 +	1635971	100		12-13'8": Dark yellowish brown, fine to medium(+) to coarse(-) SAND, trace fine Gravel, moist, slightly dense; 13'8"-14': Dark reddish brown, fine(+) to medium SAND,	1.2
†	1635972			dense, moist; 14'-14'2": Greyish brown, fine to medium SAND, little(-) fine Gravel, wet, slightly dense	1.9
+16 + - - -				Bottom of Boring at 16'	
20					
+					
24					
Comments	: Note: E	xtra 40m	nl sample ta	aken of black sand at 14'-14'2" as sample 1635971	1

South Airport Fill Area Project: LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe **Macro Core**

Sampling Method: Macr Groundwater Observations:

Depth: Depth: At: Hours

Start Date 06/20/97 **End Date** 06/20/97

Boring ID SA-SB-99

Logged By: M. Busa
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation: J. Klapheke

Northing: Easting:

Sample No. 635973 635974	Recovery (X)	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 8": Dark reddish brown, fine to medium SAND, trace Silt, roots, dry, loose; 8"-2': Yellowish red, fine(+) to medium SAND, trace Silt, dry, slightly dense; 2-4': Yellowish brown, fine to medium SAND, dry to slightly moist	(ppm 2.6
635973 635974	81	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 8": Dark reddish brown, fine to medium SAND, trace Silt, roots, dry, loose; 8"-2': Yellowish red, fine(+) to medium SAND, trace Silt, dry, slightly dense; 2-4': Yellowish brown, fine to medium SAND, dry to slightly	2.6
635974		·	Silt, roots, dry, loose; 8"-2': Yellowish red, fine(+) to medium SAND, trace Silt, dry, slightly dense; 2-4': Yellowish brown, fine to medium SAND, dry to slightly	
635975				
635976	01		0-6": Strong brown, fine(+) to medium SAND, trace Silt, moist, dense; 6"-2': Pale brown, fine to medium(+) to coarse SAND, slightly moist, slightly dense; As above to 7'; 7-8': Pale brown to brown, fine(+) to medium SAND, moist, dense	3.4 6.5
635977	81		8-9': Yellowish brown, fine(+) to medium SAND, trace Silt, moist, slightly dense; 9-10': Pale brown, fine(+) to medium SAND, moist, dense	3.5
635978	81		Brown, fine to medium(+) to coarse SAND, moist, slightly dense (more dense where Sand is fine)	2.8
635979	77	-	Brown, fine to medium SAND, moist, slightly dense; 13.5'-14': Dark brown to black, medium to coarse(+) SAND, little fine Sand, wet, loose to slightly dense	0.0
635980	77		Dark yellowish brown, fine to medium(+) to coarse(-) SAND, wet, slightly dense	0.6
			Bottom of Boring at 16'	
				·

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core

Groundwater Observations:

Depth:

Hours

Start Date 06/23/97 **End Date** 06/23/97

Boring ID

SA-SB-100

Logged By: J. Trzaski

Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Northing:

Depth: Depth:		kt: kt:	Hours Hours	Northing: Easting:	
	Sam	ple Informat	ion	Sample Description	_
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1635996	75		Top 8": Yellowish brown, SILT with fine Sand, trace organic matter, dry, loose; Bottom 9": Very pale brown, fine SAND, trace medium Sand, slightly moist, loose	4.5
. ‡	1635997	75		Pale brown to yellowish brown, fine SAND, slightly moist, loose	6.0
+4	1635998	88		Yellowish brown, fine(+) to medium SAND, moist, loose	5.8
- +	1635999 1636000	88		Top 2": Brown, very fine SAND, moist, loose; Bottom 16": Yellowish brown, fine(+) to medium SAND, moist to wet, loose	8.0
	1636001	50		Dark yellowish brown, fine to coarse(-) SAND, trace Silt, wet, loose, drk brown staining bottom 6"	9.0
†	1636002	50		As Above, no staining	5.8
12	1636003	76		Dark yellowish brown, fine to medium SAND, wet, loose	6.0
‡	1636004	75		Yellowish brown, fine to coarse SAND, wet, loose	7.0
+ 16 - - -				Bottom of Boring at 16'	
20					
-24					
‡					

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Hours

Groundwater Observations:

Depth:

Start Date 06/23/97 **End Date** 06/23/97

Boring ID

SA-SB-101

J. Trzaski

Logged By: J. To Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400

Surface Elevation: Northing:

Depth:	At: Hours			Easting:			
	San	nple Informat	ole Information Sample Description				
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
ļ°	1636006	75		Yellowish brown, SILT, some fine Sand, trace organic matter, dry, loose	30.1		
† † †	1636007	75		Yellowish brown, fine SAND, dry to slightly moist, loose	30.5		
4	1636008	62		Light yellowish brown, very fine SAND, slightly moist, loose	30.4		
+	1636009	62		Yellowish brown, fine SAND, some medium Sand (top 8"), moist, loose	30.3		
+8	1636010	67		Yellowish brown, fine to medium SAND, trace coarse Sand, dark brown staining bottom 6", moist to wet, loose	30.9		
+	1636011	67		Dark yellowish brown, fine to medium SAND, wet, loose	30.7		
12	1636012	75		As Above	30.5		
† †	1636013	75		As Above, dark brown staining top 6"	30.1		
16				Bottom of Boring at 16'			
20							
24							
Comments	:				<u> </u>		

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core **Groundwater Observations:** Hours

Start Date 06/23/97 **End Date** 06/23/97

Boring ID **SA-SB-102**

Logged By: J. Trzaski D. Brisson Drilling Foreman: Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Elevation/ Depth	Sam Sample No.	Recovery		Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
Depth	Sample No.	Recovery	Blows	Color, Primary Grain Size, Secondary Grain Sizes,	
-	L	(2)	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
Ť	1636014	88		Top 10": Yellowish brown, SILT, little fine Sand, trace organic matter, dry, loose; Bottom 11": Light yellowish brown, fine to very fine SAND, trace Silt, dry to slightly	27.2
Ī	1636015	88		Top 8": Same as last 11"; Bottom 13": Strong brown, fine SAND, trace medium Sand, trace Silt, slightly moist, loose	31.0
+4	1636016	58		Top 5": Same as last 13": Bottom 9": Brown, fine SAND, trace medium Sand, trace Silt, moist, loose	38.7
‡	1636017	58		Same as last 9", moist to wet	22.2
+8	1636018	75		Yellowish brown, fine to coarse SAND, trace Silt, wet, loose	21.1
<u> </u>	1636019	75		Light olive brown, fine to medium SAND, wet, loose	26.0
12	1636020	67		As Above	22.8
Ī	1636021	67		Light olive brown to yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose	23.4
16			-	Bottom of Boring at 16'	
20					
+					
+24					

Tank Trailer Storage Area Project: 68VC610 LEÀ Comm No: Client: Pratt & Whitney Location: East Hartford, CT LEA **Drilling Contractor:** Hand Auger Drilling Method: Sampling Method: Buck Groundwater Observations: **Bucket Auger**

Hours Depth: NM

Start Date 11/12/96 **End Date** 11/12/96

Boring ID

SA-SB-103

Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Hand Auger Surface Elevation: Northing: J. Sweeton

Depth:	1141	At:	Hours	Easting:		
	Sar	nple Inform	rtion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
ް	1021142 1021143	100 100		Light brown, fine SAND, little Silt, moist, loose As Above	0.0	
† †				Bottom of Boring at 2.0'		
+4						
Ī						
-8						
†						
‡						
12						
Ī						
+16						
‡						
†	}					
20						
Ī						
-24						
‡				·		
Comment	s: Auger	hole bac	kfilled upon	n completion.		



Page 1 of 1 Project: South Airport Fill Area Start Date Boring ID LEA Comm No: 68V7079 06/24/97 Client: Pratt & Whitney **End Date SA-SB-104** Location: East Hartford, CT 06/24/97 Logged By: J. T Drilling Foreman: **Drilling Contractor:** J. Trzaski Drilling Method: Geoprobe D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Sampling Method: Macro Core **Groundwater Observations:** Northing: Depth: Hours

Deptn: Depth:		ac: At:	Hours Hours	Northing: Easting:			
	San	ple Informat	ion	Sample Description			
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
0	1635989 1635990	75		Strong brown to pale brown, fine to medium SAND, trace Silt (top 8"), trace(-) coarse Sand, dry to slightly moist, loose	2.1		
+4	1635991 1636031	67		Light yelloish brown to yellowish brown, fine to coarse(-) SAND (top 24"), fine(+) to medium Sand (bottom 8"), slightly moist to moist, loose	3.8		
+++++++++++++++++++++++++++++++++++++++	1636032				2.5		
+8	1636033	83		Yellowish brown, fine to coarse SAND, wet, loose, coarsening downward	3.8		
† † †	1636034				4.2		
+12	1636035	83		Strong brown to yellowish brown, fine to coarse SAND, fine to medium Sand (middle 10"), wet, loose	5.4		
† †	1636036				4.8		
+ 16				Bottom of Boring at 16'			
20							
24							
Comments	:				<u> </u>		

Project: South Airport Fill Area Start Date LEA Comm No: 68V7079 06/24/97 Client: Pratt & Whitney **End Date** Location: East Hartford, CT 06/24/97

Boring ID SA-SB-105

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro Core **Groundwater Observations:** Hours Depth:

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Northing:

Depth:		\t:	Hours	Easting:	
Elevation/ Depth	Sample Information			Sample Description	
	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
	1636037 1636038	83		Top 28": Strong brown, SILT, some fine Sand, trace(-) coarse Gravel, trace medium Sand, dry to slightly moist, loose; Bottom 12": Dark yellowish brown, fine to medium SAND, trace(-) fine and coarse Gravel, trace Silt, slightly moist, loose, trace(-) coal pieces	3.1
4	1636039	83		Pale brown, fine to medium SAND, trace Silt, moist, loose	3.1
† † † †	1636040	83		Top 10": Light yellowish brown, fine SAND, trace very fine Sand, moist, loose; Bottom 10": Yellowish brown, medium SAND, trace fine Sand, wet, loose	4.7
+8	1636041	71		Yellowish brown, fine to coarse SAND, trace Silt, dark brown staining bottom 2", wet, loose	4.8
Ī	1636042				4.2
12	1636043	83		As Above, dark brown staining top 8"	3.9
† †	1636044			•	4.2
16				Bottom of Boring at 16'	
-20				·	
† † † †					
-24					
Comments	:				

Project: South Airport Fill Area LEA Comm No: 68V7079 **Start Date Boring ID** 06/24/97 Client: Pratt & Whitney **End Date SA-SB-106** Location: East Hartford, CT 06/24/97 Logged By: J. T. Drilling Foreman: **Drilling Contractor:** LEA J. Trzaski Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: At: Geoprobe D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Macro Core

Hours

Depth:	1	At:	Hours	Easting:	
Elevation/ Depth	Sample Information			Sample Description	
	Sample No.	Recovery (と)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1636045 1636046	71		Top 15": Yellowish brown, fine(+) to medium SAND, some Silt, trace(-) organic matter, dry to slightly moist, loose; Bottom 19": Yellowish brown, fine(+) to medium SAND, slightly moist, loose	2.5 2.5
4	1636047	67		Light yellowish brown, fine SAND, some very fine Sand, slightly moist to moist, loose	4.1
†	1636048	67		Light yellowish brown, fine(+) to coarse SAND, moist, loose	4.5
+8	1636049	88		Yellowish brown, fine to coarse SAND, trace Silt, dark brown staining at 24-48", wet, loose	4.9
+	1636050				4.3
12	1636051	62		Yellowish brown, fine to coarse SAND, trace fine Grael, wet, loose	4.4
	1636052	62		Yellowish brown, medium to fine SAND, wet, loose	3.9
+16				Bottom of Boring at 16'	
±20					
24					

Project: South Airport Fill Area	
LEA Comm No: 68V7079	
Client: Pratt & Whitney	
Location: East Hartford, CT	
Drilling Contractor: LEA	4
Drilling Method: Geoprobe	430
Sampling Method: Macro Core	
Groundwater Observations:	
Benth: At-	Hours

Start Date 06/24/97 End Date 06/24/97

Boring ID SA-SB-107

Logged By: J. Trzaski
Drilling Foreman: D. Brisson
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

	At:	Hours	Easting:	
Sample Information			Sample Description	
Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1636053	88		Brown to strong brown, SILT, some fine Sand, trace organic matter, dry, loose to moderately dense	2.0
1036054	88		Light yellowish brown, fine SAND, trace medium Sand, slightly moist, loose	1.3
1636055	58		Light yellowish brown, fine(+) to medium SAND, moist, loose	3.8
1636056				2.9
1636057	75	,	Yellowish brown, fine to medium SAND, trace coarse Sand, iron staining bottom 8", wet, loose	3.6
1636058				3.5
1636059	83		Yellowish brown to light olive brown, fine to coarse SAND, wet, loose	3.7
1636060				3.7
			Bottom of Boring at 16'	
	Sample Mo. 1636053 1036054 1636055 1636056 1636056	Sample Recovery (2) 1636053 88 1036054 88 1636055 58 1636056 1636057 75 1636058	Sample Recovery Blows /6* 1636053 88 1036054 88 1636055 58 1636056 1636058 1636058	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Chesiveness

Depth:

Project: South Airport Fill Area 68V7079 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core Groundwater Observations: Depth: At:

Start Date 06/24/97 **End Date** 06/24/97

Boring ID SA-SB-109

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Northing:
Easting:

Deptn:		At:	ношъ	Easting:		
	San	nple Informat	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1636069	88		Yellowish brown, SILT, little fine Sand, trace organic matter, dry, moderately dense	3.0	
†	1636070	88		Brownish yellow, fine to medium SAND, dry to slightly moist, loose	2.5	
+4	1636071	71		Yellowish brown, fine to coarse SAND, slightly moist to moist, loose	2.3	
	1636072	71		Light yellowish brown, fine to medium SAND, moit, loose	0.9	
8	1636073	83		Yellowish brown, fine SAND (18") coarsening downward to fine to coarse SAND, wet, loose, dark brown staining at 34-38"	4.1	
†	1636074				4.3	
+12	1636075	58		Light olive brown, fine to medium SAND, trace Silt, trace coarse Sand, wet, loose	0.1	
Ī †	1636076				3.9	
† - - - -				Bottom of Boring at 16'		
20						
24						
Comments	:					

Project: South Airport Fill Area Start Date **Boring ID** 68V7079 LEA Comm No: 06/24/97 Client: Pratt & Whitney **End Date SA-SB-110** Location: East Hartford, CT 06/24/97 Logged By: **Drilling Contractor:** LEA J. Trzaski D. Brisson Drilling Method: Geoprobe Drilling Foreman: Macro Core Geoprobe 5400 Sampling Method: Drill Rig: Groundwater Observations: Surface Elevation: Hours Depth: At: Northing: Hours Easting: Depth: At: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 88 1636077 0.0 Yellowish brown to dark brown, SILT with fine Sand, trace organic matter (top 12"), trace(-) process stone fine and coarse Gravel (12-16") dry to slightly moist, moderately dense 1636078 0.0 1636079 75 0.0 Dark brown, SILT some fine Sand, trace medium Sand, trace organic matter, moist to wet, moderately dense to loose 0.0 1636080 1636081 83 0.0 Top 10": As Above, wet, moderately dense; Bottom 10": Olive grey, medium to fine SAND, trace Silt, wet, loose 1636082 83 0.0 Top 5": As Above; Bottom 15": Olive grey to light olive brown, fine to coarse SAND, iron staining at 11-14", wet, 12 1636083 83 0.0 Yellowish brown, very fine to medium SAND, trace coarse Sand, wet, loose 1636084 0.0 Printed On: 1/22/1998 16 Bottom of boring at 16' 20 24 Boring No: SA-SB-110 Comments:

Project:	South Airp	ort Fill A	rea	Start Date Boring ID	
LEA Com		V7079		00/25/57	,
	ratt & Whit			End Date SA-SB-11	1
Location:	East Hart	ford, CT		06/25/97	
Depth:	ethod: G Method: ter Observa	At:	Core Hoye	Logged By: J. Trzaski Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	, , , , , , , , , , , , , , , , , , ,
Depth:		At:	House	₹ 🖁 Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1636091	75	· ·	Brown to strong brown, SILT, some fine Sand, trace organic matter (top 8"), dry, loose, trace process stone fine and coarse Gravel	2.2
†	1636092	75		Yellowish brown, fine SAND, dry to slightly moist, loose	2.0
+4	1636093 1636094	62		Light yellowish brown, fine(+) to medium SAND, trace(-) coarse Sand, slightly moist to moist, loose, slight coarsening downward to fine to medium SAND (bottom 10")	1.9
+8	1636095	79		Yellowish brown, (fine(+) to coarse SAND, wet, loose	1.5
‡ ‡	1636096 1636097			· ·	2.5
12					24
† †	1636098	75		Dark yellowish brown, fine to coarse SAND, trace fine Gravel, wet, loose	2.1
Ī Į	1636099	75		Dark brown staining at 24-30"	2.1
+16				Bottom of Boring at 16'	
20					
24					

Comments:

Depth:

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macro Core **Groundwater Observations:**

At:

Hours

Start Date 06/25/97 End Date 06/25/97

Boring ID SA-SB-112

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation:

D. Brisson

Depth:	At: Hours			Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
°	1636100	83		Brown to strong brown, SILT, some fine Sand, trace organic matter, dry, loose	2.0	
1	1636101	83		Light yellowish brown, fine to medium SAND, dry to slightly moist, loose	2.3	
+4	1636102	62		Light yellowish brown to yellowish brown, fine to medium SAND, trace coarse Sand, moist to wet, loose, wet at 20"	2.0	
†	1636103			·	1.9	
	1636104	92		Yellowish brown, fine to medium SAND, wet, loose	2.3	
† †	1636105	92	· · · · · · · ·	As Above	2.2	
12	1636106	75		Yellowish brown, fine to coarse SAND, trace fine Gravel, wet, loose	2.3	
‡	1636107	75		Top 5": Yellowish brown, medium to coarse SAND, wet, loose; Bottom 13": Grey, CLAY, trace brown very fine Sand, and Silt, laminated, wet, loose	1.8	
16				Bottom of Boring at 16'		
20						
+						
+24						
‡						

Project: South Airport Fill Area
LEA Comm No: 68V7079
Client: Pratt & Whitney East Hartford-JBK
Location: P&W East Hartford, CT

Drilling Contractor: LE/ Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe Macro Core

Depth:

Hours

Start Date 06/27/97 **End Date** 06/27/97

Boring ID

SA-SB-113

Logged By: J. Trzaski Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 Surface Elevation: D. Brisson

Depth:	At: Hours		Hours	₩ Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1636114 1636115	62	•	Greyish brown to yellowish brown, fine SAND, trace medium SAND, trace Silt (Top 10") trace organic matter (top 10"), dry to moist, loose, Cobble at 8"	0.2
‡	1636116				0.0
+4	1636117	54		Yellowish brown, fine SANd, trace Silt, trace medium Sand, moist to wet, loose, wet at bottom	0.8
‡	1636118	54		16-22": Dark brown, fine SAND, little Silt, trace medium Sand, trace organic matter, moist, loose, wet at bottom	0.0
+8	1636119	67		Yellowish brown, fine to medium SAND, trace(-) coarse Sand, wet, loose	0.2
‡	1636120				0.0
+12 + - - - - - - - -	1636121 1636122	50 50		Yellowish brown to greyish brown, fine to coarse SAND, trace fine gravel, wet, loose Slight coarsening downward	0.5 0.0
16				Bottom of Boring at 16'	
+20					
<u></u>					
Comments	; ;				

South Airport Fill Area Start Date Project: Boring ID 68V7079 06/27/97 LEÀ Comm No: Client: Pratt & Whitney East Hartford-JBK **End Date** SA-SB-114 Location: P&W East Hartford, CT 06/27/97 Logged By: **Drilling Contractor:** LEA J. Trzaski Drilling Foreman: **Drilling Method:** Geoprobe D. Brisson Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Groundwater Observations: Surface Elevation: Northing: Depth: Hours At: Depth: At: Hours **Easting:** Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows ecover (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1636123 75 0.0 Top 3": Reddish brown, fine to coarse SAND, trace Silt, some fine and coarse Gravel, moist, loose; Bottom 15": Yellowish brown, fine SAND, little Silt, trace medium and coarse Sand, moist, moderately dense 1636124 75 0.4 Brownish yellow, fine to medium SAND, trace(-) coarse Sand, slightly moist to moist, loose 75 1636125 Yellowish brown, fine(+) to medium SAND, trace(-) coarse 0.3 Sand, moist to wet, loose 1636126 75 0.0 Fining downward to fine SAND (last 6"), wet bottom 4" 1636127 79 0.0 Yellowish brown, fine SAND, trace very fine Sand, trace medium Sand, wet, loose, coarsening downward to Yellowish brown, fine to coarse SAND, wet, loose 1636128 0.0 12 1636129 92 0.7 Yellowish brown, fine to coarse SAND, wet, loose 1636130 92 0.0 As Above 16 Bottom of Boring at 16' 1/20/1998 20

Comments:

Printed

5

Project: South Airport Fill Area LEA Comm No: 68V7079 Client: Pratt & Whitney **Location:** East Hartford, CT LEA

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations:

Hours Depth: At:

rt Date 06/27/97 **End Date** 06/27/97

Boring ID SA-SB-115

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: D. Brisson

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
	1636131	92	,	Top 8": Reddish brown, fine SAND, little fine and coarse Gravel, trace medium and coarse Sand, moist, loose; Bottom 14": Yellowish brown, fine SAND, some Silt, slightly moist, moderately dense	0.0
‡	1636132	92		Yellowish brown, fine(+) to medium SAND, slightly moist to moist, loose	0.0
† 4	1636133	58		Yellowish brown, fine(+) to medium SAND, fining downward to fine Sand (bottom 10"), moist to wet, loose, wet at bottom	0.0
†	1636134	58			0.0
∓ 8	1636135	75		Yellowish brown, fine to very fine SAND, trace medium Sand, wet, loose	0.0
+	1636136	75		Top 14": Yellowish brown, fine(+) to medium SAND, wet, loose, trace very fine Sand; Bottom 4": Yellowish brown, fine to coarse SAND, wet, loose	0.0
+12	1636137	46		Yellowish brown to greyish brown, fine to coarse SAND, wet, loose	0.0
‡	1636138			·	0.0
+16	· 			Bottom of Boring at 16'	
† + + +				bottom or borning at 10	
20					
‡					
-24					

South Airport Fill Area Project: LEA Comm No: 68V7079 Client: Pratt & Whitney East Hartford-JBK P&W East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core Groundwater Observations:

Depth:

At:

Start Date 06/30/97 **End Date** 06/30/97

Boring ID

SA-SB-116

Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Elevation/ Depth	Sample No.	apie Informa	tion	Sample Description	
Depth	Sample			Colon Discours Control City Constant Control City	
0	110.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1636144 1636145	62		Strong brown to yellowish brown, fine SAND, some Silt, trace medium Sand, trace organic matter, dry to slightly moist, loose to moderately dense, 1": layer bituminous asphalt at 8"	0.0
+4	1636147	50		Light yellowish brown, fine SAND, trace medium Sand, grading to fine to medium Sand (bottom 10"), moist, loose	0.0
+	1636148				0.1
+8	1636149	67		Top 10": Light yellowish brown, fine to medium SAND, wet, loose; Middle 8": Yellowish brown, fine to very fine SAND, micaceous, wet, loose; Bottom 14": Yellowish brown, fine	0.0
‡	1636150			to coarse SAND, trace fine Gravel, wet, loose	0.0
+12	1636151	29		Yellowish brown, fine to medium SAND, trace coarse Sand, wet, loose	0.0
† †	1636152		,		5.0
+16 + + + + +				Bottom of Boring at 16'	
20					
Comments	<u> </u>				

Project: South	Airport Fill Area		
LEA Comm No:	68V7079		_
Client: Pratt & \	Whitney East Ha	artford-JBK	
Location: P&W	East Hartford,	CT	_ \$
Drilling Contracto	r: LEA		
Drilling Method:	Geoprobe		
Sampling Method:	: Macro Cor		
Drilling Method: Sampling Method: Groundwater Obs	ervations:		
Depth:	At:	Hours 📉	A
Depth:	At:	Hours 🔻	,

Seart Date 06/30/97 End Date 06/30/97

Boring ID SA-SB-117

Logged By: D. Brisson
Drilling Foreman: J. Trzaski
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

Depth:	At: Hours		Hours			
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1636153	83		Top 10": Drk brown, medium to very fine SAND, trace coarse Sand and Gravel, trace organic matter, dry, loose; Bottom 10": Red brown, medium to fine SAND, trace coarse Sand, moist, moderately dense	0.0	
Ŧ	1636154	83		Yellow brown, fine SAND, trace(+) medium Sand, moist, loose	0.0	
+4	1636155	75		Top 10": Orange brown, coarse to fine SAND, moist, loose; Bottom 8": Orange brown to grey brown, fine SAND, moist, loose	0.0	
† †	1636156	75		18": As Above bottom 8"	0.4	
+8	1636157	62		Grey orange brown, medium to fine SAND, trace(+) coarse Sand, trace(-) pea gravel, wet, loose	0.0	
†	1636158	62		As Above, iron staining present	0.0	
+12 +	1636159	62		Top 6": Brown, fine SAND, trace medium Sand, moist, loost; Bottom 9": Olive grey, medium to fine SAND, trace coarse Sand, wet, loose	0.0	
‡	1636160	62		As Above Bottom 9"	0.0	
16				Bottom of Boring at 16'		
20				·		
-24						
Comments	:			<u> </u>		

Project: South LEA Comm No: South Airport Fill Area 68V7079 Client: Pratt & Whitney East Hartford-JBK P&W East Hartford, CT Location:

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations:

Depth: Depth: At: Hours Hours At:

Start Date 06/30/97 **End Date** 06/30/97

Boring ID

SA-SB-118 J. Trzaski

Logged By: J. To Drilling Foreman: Drill Rig: Geopre Surface Elevation: D. Brisson Geoprobe 5400

Northing: Easting:

y fine 0.0
(ppm)
y fine 0.0
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no re
), 0.0 n 6"),
e Sand, 0.0
se, trace 0.0
0.0
e Sand, 0.0
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l
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Project: SA Contractor Storage Area LEA Comm No: 68V7082 Start Date Boring ID 7/1/97 End Date Client: P&W East Hartford **SA-SB-119** Location: East Hartford, CT 7/1/97 Logged By: J. To Drilling Foreman: Drilling Contractor: Drilling Method: Sampling Method: LEA J. Trzaski GeoProbe D. Brisson Drill Rig: GeoPri Surface Elevation: Northing: Easting: Macro Core GeoProbe 5400 Groundwater Observations: Depth: Depth: Hours At: At: Hours

Depth:	At: Hours					
	San	nple Informat	tion	Sample Description		
Elevation/ Depth	Sample Mu.	Recovery (%)	Blows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп	
0	1637748 1637747	120 120		Top 8": Reddish brown to yellowish brown, fine SAND, some Silt, little fine and coarse gravel, trace bituminous asphalt, dry loose	21.0	
†	1637749	120	·:	Bottom 32": Yellowish brown to greyish brown, fine to medium SAND, trace(-) coarse Sand, dry to slightly moist, loose	32.	
+4	1637750	200		Light Yellowish brown fine to medium SAND, slightly moist to moist, loose	27.	
+	1637751	200		Slight iron staining (bottom 2")	10.	
+ 8	1637752	120		Yellowish brown to light olive brown, fine SAND, little medium Sand, trace very fine Sand, wet, loose	0.0	
† † †	1637753	120			0.0	
12	1637754	133		Top 24": Light olive brown∤ovellowish brown fine to coarse(+) SAND, trace fine Gravel (pea size), wet, loose	1.1	
†	1637755	133		Bottom 12": Yellowish brown medium(+) to fine SAND, trace coarse Sand, wet, loose	1.3	
16			_	Bottom of Boring 16'		
20						
-24						
† Comments					L	

Project: SA Contractor Storage Area Start Date Boring ID LEA Comm No: 68V7082 7/1/97 Client: P&W East Hartford **End Date** SA-SB-120 Location: East Hartford, CT 7/1/97 **LEA Drilling Contractor:** Logged By: J. Trzaski Drilling Method: **GeoProbe** Drilling Foreman: D. Brisson Sampling Method: **Macro Core** GeoProbe 5400 Drill Rig: **Groundwater Observations:** Surface Elevation: Depth: At: Hours Northing: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Sample No. (maga) 1637756 120 21.9 Top 10": Reddish brown to yellowish brown fine SAND. some Silt, little fine and coarse Gravel, trace(-) bituminous asphalt, dry, loose 1637757 120 39.0 Bottom 30": Yellowish brown to greyish brown fine(+) to medium SAND, trace(-) coarse Sand, slight coarsening downward to medium to fine Sand, dry to slightly moist, 1637758 150 18.2 Light yellowish brown fine to medium SAND, slightly moist to moist, loose 1637759 150 2.9 1633760 133 Light olive brown, fine SAND, trace very fine Sand, trace 1.6 medium Sand, wet, loose 1637761 133 0.4 1637762 114 0.4 Dark yellowish brown, fine to coarse SAND, trace fine Gravel (pea size), wet, loose 0.1 1637763 114 **Bottom of Boring 16'** 20 **Comments:**

02020				rage 1 of 1	
LEA Comm Client: Po Location:	&W East H East Hart	V7082 artford ford, CT		Start Date 7/1/97 Boring ID End Date 7/1/97 SA-SB-12	
Drilling Co Drilling Mo Sampling Mo Groundwa Depth: Depth:	ethod: G Method: ter Observa	At: At:	Core Hours Hours	Logged By: J. Trzaski Drilling Foreman: D. Brisson Drill Rig: GeoProbe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1637764	120		Top 6": Reddish brown, fine SAND, little medium and coarse Sand, trace fine and coarse Gravel	43.3
‡	1637765	120		Bottom 28": Yellowish brown to greyish brown, fine(+) to medium SAND, slightly moist, loose	29.9
+4	1637766	160		Light yellowish brown, fine SAND, trace medium Sand, slightly moist to moist, loose	22.8
† †	1637767	160			0.0
-8	1637768	133	_	Light olive brown fine SAND, trace medium Sand, trace very fine Sand, wet, loose	2.8
<u> </u>	1637769	133			0.0
12	1637770	133		Light olive brown, medium to fine SAND, trace coarse Sand, slight coarsening downward, wet, loose	0.0
	1637771	133			0.0
16		,		Bottom of Boring 16'	
+20					
† † †					
1 1 24					

Comments:

Start Date Project: SA Contractor Storage Area Boring ID LEA Comm No: 68V7082 7/1/97 Client: P&W East Hartford End Date **SA-SB-122** Location: East Hartford, CT 7/1/97 Logged By: **Drilling Contractor:** J. Trzaski **LEA** Drilling Method: **GeoProbe** Drilling Foreman: D. Brisson Sampling Method: GeoProbe 5400 **Macro Core** Drill Rig: **Groundwater Observations:** Surface Elevation: Depth: lour: Northing: At: Depth: Easting: At: ours Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes. Elevation/ Depth Sample No. covery Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637774 109 25.5 Top 10": Reddish brown, fine SAND, little medium and coarse Sand, trace Silt, trace fine and coarse Gravel, dry, loose 1637775 109 Bottom 34": Light yellowish brown fine(+) to medium 23.7 SAND, dry to slightly moist, loose 1637776 133 0.0 Light yellowish brown fine SAND, slightly moist to wet, loose, wet at bottom 1637777 133 0.0 1637778 114 0.0 Light olive brown fine(+) to medium SAND, trace coarse Sand, wet, loose 1637779 0.0 114 12 1637780 19.7 141 Dark vellowish brown medium to fine SAND, trace coarse Sand, wet, loose 1637781 141 20.4 Printed On: 1/20/1998 Slight coarsening downward 16 Bottom of Boring 16' 20 Boring No: SA-SB-122 Comments:

Project: SA Contractor Storage Area LEA Comm No: 68V7082 Client: P&W East Hartford Start Date 7/1/97 End Date Boring ID							
Location:	East Harti	ford, CT		7/1/97 SA-SB-12	23		
Drilling Control of Drilling Manual of Sampling of Groundward Depth: Depth:	ethod: G Method: ter Observa	LEA ieoProbe Macro (tions: \t: \t:		Logged By: J. Trzaski Drilling Foreman: D. Brisson Drill Rig: GeoProbe 5400 Surface Elevation: Northing: Easting:			
	Sam	ple Informa	tion	Sample Description			
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
•	1637782	109		Top 6": Reddish brown, fine SAND, little medium and coarse Sand, trace fine and coarse Gravel, dry, loose. Bottom 16": Yellowish brown fine SAND, little silt, trace medium Sand,	21.3		
† †	1637783	109		Light yellowish brown fine SAND, trace medium Sand, slightly moist, loose	16.4		
+4 + +	1637784	150		Light yellowish brown fine(+) to medium SAND, slightly moist to moist, loose	3.8		
+ + + +	1637785	150			1.6		
+8 + + +	1637786	133		Top 24": Yellowish fine(+) to medium SAND, coarsening downward to fine to coarse(+) Sand (Bottom 12") wet, loose	0.0		
† + +	1637787	133		Slight iron staining at 8"	0.0		
+12	1637788	141		Light olive brown fine to medium SAND, little coarse Sand, wet loose	0.0		
<u> </u>	1637789	141			0.0		
+16 +				Bottom of Boring 16'			
† †				·			
20							
+ 24 + 24							
Comment	<u> </u> s:						

Project: SA Fire Training Area B **Start Date** Boring ID LEA Comm No: 68V7081 07/02/97 Client: Pratt & Whitney **End Date SA-SB-124** Location: East Hartford, CT 07/02/97 J. Trzaski **Drilling Contractor:** LEA Logged By: Drilling Method: Geoprobe MC Drilling Foreman: D. Brisson Sampling Method: **GP-5400** Macro Core Drill Rig: Groundwater Observations: Surface Elevation: Depth: Northing: Hours At: Hours Depth: Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637079 79 4.2 Top 8": Pale brown, fine to medium SAND, trace Silt, trace organic matter, dry, loose; Bottom 11": Brown to orangish brown, fine SAND, little Silt, trace medium Sand, dry, moderately dense 1637080 1637081 79 3.9 Orangish brown to light yellowish brown, fine SAND, trace Silt; Top 8": trace medium SAND, slightly moist, moderately dense to loose 62 1637082 5.1 Light yellowish brown, medium to fine SAND, moist to wet, loose, wet at 25" 1637083 62 5.1 1637084 67 2.8 Yellowish brown, fine to medium SAND, trace coarse Sand, wet, loose, iron staining from 16-32" 1637085 67 4.5 12 1637086 71 4.3 Orange brown to light olive brown, fine to medium SAND, trace coarse SAND, wet, loose 1637087 71 4.6 16 Bottom of Boring at 16' 20 Boring No: SA-SB-124 Comments:

SA Fire Training Area B Project: 68V7081 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe MC Macro Core **Groundwater Observations:**

Hours

Start Date 07/02/97 End Date 07/02/97

Boring ID **SA-SB-125**

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 J. Trzaski D. Brisson

Surface Elevation: Northing:

Depth:	At: Hours		Hours	₩ Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
·	1637088	92		Brown fine SAND, some Silt, trace medium Sand, trace organic matter, dry, loose; Bottom 6": Orange brown fine SAND, trace Silt, dry, moderately dense	17.7
‡	1637089	92		Top 4": As above last 6"; Bottom 18": Light yellowish brown fine SAND, trace medium Sand, slightly moist, loose	33.6
+4	1637090	62		Light yellowish brown fine SAND, trace medium Sand, moist to wet, loose, iron staining at 16-22", wet at 20"	24.8
†	1637091	62			27.7
-8	1637092	75		Light yellowish brown to orange brown, fine to medium SAND, trace coarse Sand, wet, loose, trace coarse Sand	3.4
	1637093				2.8
12	1637094	62		Light olive brown, fine to medium SAND, wet, loose	3.5
‡	1637095	62		Orange brown, fine to coarse SAND, wet, loose	3.4
+ 18 + + +				Bottom of Boring at 16'	
+ + + + + 24					
+		1			

LEA	Com		V7081		Start Date 07/02/97 Boring ID			
	nt: Pi ation:	ratt & White East Hartf	ney Eas	t Hartford	End Date 07/02/97 SA-SB-120	6		
	Drilling Contractor: LEA Logged By: J. Trzaski							
Dril	ling M	ethod: G	eoprobe		Drilling Foreman: D. Brisson			
Sam	ipiing r imdwa	Method: ter Observat	Macro (Core	Drill Rig: GP-5400 Surface Elevation:	ľ		
Dep	th:	A	t:	Hours	Northing:	İ		
Dep	th:		t: ple Informa	Hours	Easting: Sample Description			
Eleva	tion/	Sam	bie miorina	mon	Color, Primary Grain Size, Secondary Grain Sizes,	l		
Depth		Sample No.	Recovery (火)	Blows /6"	Malatana Castina Culturalita Americata	(ppm)		
	0	1637096	92		Brown to orange brown, fine SAND, some Silt, trace medium Sand, trace organic matter, dry to slightly moist, loose	2.5		
	† † †	1637097	92		Light yellowish brown, fine SAND, trace medium Sand, slightly moist, loose	1.7		
-	+4	1637098	62		Light yellowish brown, fine to medium SAND, trace coarse Sand, moist to wet, loose	45.6		
	†	1637099				0.0		
•	8	1637100	83		Light olive brown to orange brown, fine(+) to medium SAND, trace coarse Sand, wet, loose, slight coarsening downward	0.0		
	† + +	1637101	83			0.0		
-	12	1637102	62		Yellowish brown, medium to fine SAND, trace coarse Sand, wet, loose	1.0		
	† †	1637103				0.0		
	16		 		Bottom of Boring at 16'			
-	† + + +				Bottom of Boring at 10			
-	20							
	‡ +							
	24							
Con	ments	•]]					
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Project: SA Fire Training Area B LEA Comm No: 68V7081

Client: Pratt & Whitney East Hartford

Hours

Location: East Hartford, CT

Drilling Contractor: LEA **Drilling Method:** Geoprobe MC Sampling Method: Macro Core

Groundwater Observations:

Depth:

Start Date 07/02/97 End Date 07/02/97

Boring ID SA-SB-127

J. Trzaski

D. Brisson

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: Northing: Easting:

t: Hours	Hours Easting:			
ple Information	Sample Description			
Recovery Blaus	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness			
54	Brown to yellowish brown, SILT with fine Sand, trace medium Sand, trace organic matter, dry to slightly moist, loose	0.0		
54	Yellowish brown, fine SAND, trace Silt, trace medium Sand, slightly moist, loose	0.2		
17	Yellowish brown, fine to medium SAND, moist, loose, process stone Cobble lodged in tip	0.0		
	No Recovery			
92	Light olive brown, fine SAND, wet, loose	0.0		
92	Yellowish brown, fine to medium SAND, trace coarse Sand, iron staining throughout, wet, loose	0.0		
76	Orange brown, medium to fine SAND, trace coarse Sand, wet, loose	0.0		
75	Light olive brown, fine to medium SAND, trace(-) coarse Sand, wet, loose	0.4		
	Bottom of Boring at 16'			
	·			

Project: SA Fire Training Area B Start Date Boring ID **LEA Comm No:** 68V7081 07/03/97 Client: Pratt & Whitney **End Date SA-SB-130** Location: East Hartford, CT 07/03/97 **Drilling Contractor: LEA** Logged By: J. Klapheke Drilling Method: Geoprobe MC Drilling Foreman: D. Brisson Macro Core **GP-5400** Sampling Method: Drill Rig: **Groundwater Observations:** Surface Elevation: Hours. Depth: Northing: At: Depth: Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637128 81 19.3 6": Topsoil; 33": Brown to dark brown, fine(+) to coarse SAND, some Silt, trace fine Gravel, slightly moist, loose 1637129 10.5 1637130 75 17.2 Brown to dark yellowish brown, fine to coarse SAND, trace(-) Silt, moist to wet (5'±), loose 1637131 15.7 1637132 75 13.0 Brown, fine to coarse(+) SAND and fine GRAVEL, wet, slightly dense 1637133 5.3 12 1637134 62 5.9 As Above 1637135 8.9 16 Bottom of Boring at 16' 20 Boring No: SA-SB-130 Comments:

Project: SA Fire Training Area B LEA Comm No: 68V7081 Client: Pratt & Whitney East Hartford Location: East Hartford, CT Drilling Contractor: LEAD Drilling Method: Geopra Sampling Method: Macr Groundwater Observations: Geoprobe MC Macro Core Depth: Hours

Start Date 07/03/97 **End Date** 07/03/97

Boring ID

SA-SB-131

Logged By: J. K Drilling Foreman: Drill Rig: GP-54 Surface Elevation: J. Klapheke D. Brisson

GP-5400

Depth:	At: Hours					
	Sam	pie Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1637136 1637137	100		10": Top soil; 12": Brown, fine SAND, some fine to coarse Gravel, dry, loose; 26": Brown to dark brown, fine to medium SAND with Silt, moist, dense	0.0	
+4	1637138 1637139	79		32": Brown to dark reddish brown, fine to medium SAND, trace coarse Sand, trace(-) fine Gravel, moist, loose; 6": Grey brown, fine to medium SAND, wet, loose	0.0	
+8	1637140	75		Brown to grey brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose, occasional iron staining	0.0	
‡	1637141				0.0	
+12 .	1637142	79		As Above	0.0	
. ‡	1637143				0.0	
16				Bottom of Boring at 16'		
24						
Comments						

Project: SA Fire Training Area B Start Date Boring ID LEA Comm No: 68V7081 Client: Pratt & Whitney 07/03/97 **End Date SA-SB-132** 07/03/97 Location: East Hartford, CT Logged By: J. Klapt Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: Northing: Drilling Contractor:
Drilling Method:
Sampling Method: LEA J. Klapheke D. Brisson Geoprobe MC Macro Core **Groundwater Observations:** Depth: Hours

Depth: Depth:	At: At:		Hours Flasting:			
	San	ple Informat	tion	Sample Description		
Elevation/ Depth	Sample Recovery		Plows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
0	1637144 1637145	90	!	8": Top soil; 10": Brown, fine SAND, dry, loose; 25": Brown to dark brown, fine to medium SAND with Silt, slightly moist to moist, slightly dense	0.0	
+4	1637146	83	<u> </u>	Brown to light greyish brown, fine to medium SAND, trace coarse Sand, moist, loose	0.0	
Ī	1637147				0.0	
+8	1637148	79	<u> </u>	8": Brown, fine to medium SAND with Silt, trace fine Gravel, wet, slightly dense	0.0	
‡	1637149				0.0	
+12 1	1637150	75		Grey brown, fine to coarse SAND and fine GRAVEL, wet, loose	0.0	
 	1637151				0.0	
				Bottom of Boring at 16'		
Comments	:				_	

GEOLOGIC BORING LOG Page 1 of 1 **Start Date** Project: SA Fire Training Area B Boring ID 07/07/97 LEA Comm No: 68V7081 Client: Pratt & Whitney East Hartford **End Date** SA-SB-133 Location: East Hartford, CT 07/07/97 **Drilling Contractor:** J. Trzaski Logged By: Drilling Foreman: Geoprobe MC D. Brisson **Drilling Method:** Drill Rig: GP-5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Hours Northing: Depth: At: Hours Easting: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (pom) Sedimentary Structures, Density, Cohesiveness 1637160 88 1.6 Top 6": Brown, fine SAND, some Silt, trace organic matter, dry, loose; Bottom 15": Brownish yellow, fine SAND, trace medium Sand, dry, loose 1637161 1637162 1.5 Top 14": Same as last 15", slightly moist, moderately dense; Bottom 7": Yellowish brown, fine SAND, little Silt, trace medium Sand, slightly moist, moderately dense 1637163 58 2.3 Light yellowish, fine(+) to medium SAND, moist, loose, wet at bottom 1637164 58 1.8 1637165 1.9 Top 6": Greyish brown, fine SAND, trace medium Sand, wet, loose; Bottom 26": Yellowish brown to greyish brown, fine to coarse SAND, wet, loose 1637166 2.6 2 1637167 2.3 Greyish brown to yellowish brown, fine(+) to coarse SAND, trace fine Gravel (peasize) wet, loose, slight coarsening downward 1637168 1.5 16 Bottom of Boring at 16'

Comments:

24

20

SA Fire Training Area B Start Date Project: Boring ID LEA Comm No: 68V7081
Client: Pratt & Whitney East Hartford 07/07/97 **End Date SA-SB-134** Location: East Hartford, CT 07/07/97 **Drilling Contractor:** Logged By: J. Trzaski D. Brisson Geoprobe MC Drilling Method: Drilling Foreman: Sampling Method: Macro Core Drill Rig: **GP-5400** Groundwater Observations: Surface Elevation: Hours & Northing: Depth: At: Depth: At: Hours Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637169 Top 2": Organic debris; Middle 8": Brown, fine SAND, some Silt, trace organic matter, dry, loose 1.3 1637170 83 Bottom 30": Yellowish brown, fine SAND, trace medium SAND, trace Silt, slightly moist, loose to moderately dense 1637171 58 1.5 Light yellowish brown, fine(+) to very fine SAND, trace medium SAND, slightly moist, loose 1.1 1637172 58 Light yellowish brown, fine to medium SAND, moist, loose, coarsening downward to medium to fine SAND 1637173 62 1.6 Greyish brown, fine to coarse SAND, wet, loose 1637174 62 Light olive brown, fine to medium SAND, trace(-) coarse 1.7 SAND, wet, loose 2.9 1637175 54 Light office brown to yellowish brown, fine to medium SAND, trace coarse Sand, wet, loose 3.1 1637176 54 Bottom of Boring at 16' 20 24 Comments:

Project: SA Fire Training Area B LEA Comm No: 68V7081 Client: Pratt & Whitney East Hartford Location: East Hartford, CT Drilling Contractor: LE.
Drilling Method: Geopro
Sampling Method: Macr
Groundwater Observations: Geoprobe MC Macro Core Hours 🥎 Depth:

Start Date 07/07/97 End Date 07/07/97

Boring ID SA-SB-135

Logged By: J. Trzaski Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: D. Brisson

Depth:	At: Hours		Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
0	1637177	83		Top 10": Dark yellowish brown SILT and fine SAND, trace organic matter, dry loose; Bottom 11": Yellowish brown fine SAND, trace medium Sand, slightly moist, loose	2.5	
† †	1637178	83		Top 10": Same as last 11"; Bottom 11": Brownish yellow, fine SAND, little Silt, trace medium Sand, slightly moist, medium dense	2.9	
+4	1637179	62		Top 10": Light yellowish brown, very fine to fine SAND, moist, loose; bottom 5": Light yellowish brown, fine SAND, trace medium SAND, moist, loose	2.4	
†	1637180	62		Same as last 5", moist to wet	1.7	
8	1637181	79		Top 10": Brown fine SAND, trace medium Sand, wet, trace organic matter, top 4"; Bottom 5": Light olive brown, fine to medium SAND, trace coarse Sand, wet, loose	4.6	
‡	1637182	79		Same as last 9"	3.0	
12	1637183	62		As Above	3.0	
†	1637184	62		Yellowish brown, fine to coarse SAND, trace fine Gravel (pea size), wet, loose	4.2	
16				Bottom of Boring at 16'		
20						
-24						
Comments						

Groundwater Observations:

Depth:

Project: SA Fire Training Area B
LEA Comm No: 68V7081
Client: Pratt & Whitney East Hartford
Location: East Hartford, CT
Drilling Contractor: LEA
Drilling Method: Geoprobe MC
Sampling Method: Macro Core

At:

be MC o Core

Hours Hours

Start Date 07/07/97 End Date 07/07/97

Boring ID SA-SB-136

Logged By: J. Trzaski
Drilling Foreman: D. Brisson
Drill Rig: GP-5400
Surface Elevation:

Northing: Easting:

	Depth:	At: Hours		Hours	Easting:		
Seed Seed		San	nple Informa	ation	Sample Description		
organic metter, dry, loose; Bottom 13": Yellowish brown, fine SAND, trace medium SAND, slightly moist, loose 1637188 88 Top 10": Same as last 13"; cobble at 11"; Bottom 11"; Brownish yellow, fine SAND, little Silt, trace medium SAND, slightly moist, moderately dense Light yellowish brown, fine SAND, little medium Sand, moist to wet, loose, wet at bottom 1637188 58 Top 4": Brown, fine SAND, trace medium SAND, trace organic matter, wet, loose; Bottom 16": Light olive brown, fine to medium SAND, wet, loose 1637190 83 As Above, trace coarse SAND 2.4 1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 3.0 1637192 58 Bottom of Boring at 16'	Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm)	
Brownish yellow, fine SAND, little Silt, trace medium SAND, slightly moist, moderately dense 1637187 58 Light yellowish brown, fine SAND, little medium Sand, moist to wet, loose, wet at bottom 1637188 58 1.9 1637189 83 Top 4": Brown, fine SAND, trace medium SAND, trace organic matter, wet, loose; Bottom 16": Light olive brown, fine to medium SAND, wet, loose 1637190 83 As Above, trace coarse SAND 12 1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 3.2 Bottom of Boring at 16'	10	1637185	88		organic matter, dry, loose; Bottom 13": Yellowish brown,	2.0	
1637188 58 Top 4": Brown, fine SAND, trace medium SAND, trace organic matter, wet, loose; Bottom 16": Light olive brown, fine to medium SAND, wet, loose 1637190 83 As Above, trace coarse SAND 12 1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 Bottom of Boring at 16'	† ·	1637186	88		Brownish yellow, fine SAND, little Silt, trace medium	2.5	
1637189 83 Top 4": Brown, fine SAND, trace medium SAND, trace organic matter, wet, loose: Bottom 16": Light olive brown, fine to medium SAND, wet, loose 1637190 83 As Above, trace coarse SAND 12 12 1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 Bottom of Boring at 16' 24	†4	1637187	58			1.8	
organic matter, wet, loose; Bottom 16": Light olive brown, fine to medium SAND, wet, loose 1637190 83 As Above, trace coarse SAND 12 1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 Bottom of Boring at 16' 20	Ī	1637188	58			1.9	
1637191 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 Bottom of Boring at 16'	‡ * *	1637189	83		organic matter, wet, loose; Bottom 16": Light olive brown,	0.8	
1637192 58 Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, slightly coarsening downward 1637192 58 Bottom of Boring at 16'	‡	1637190	83		As Above, trace coarse SAND	2.4	
Bottom of Boring at 16'	12	1637191	58			3.0	
Bottom of Boring at 16'	‡	1637192	58			3.2	
-24	16				Bottom of Boring at 16'		
	+ + 20						
	† †						
Comments:	<u></u>						
	Comments	s:					

Project: SA Fire Training Area B LEA Comm No: 68V7081 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe MC Sampling Method: Macro Core

Groundwater Observations:

Depth: Depth: At: At:

Hours Hours

Start Date 07/08/97 End Date 07/08/97

Boring ID

SA-SB-137

J. Trzaski

D. Brisson

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation:

Northing: Easting:

vepu.		264	Homs	* Passeng.	
	Sam	ple Inform	ation	Sample Description]
Slevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1637198	88		Brown to yellowish brown fine SAND, little Silt, trace medium Sand, trace organic matter, dry to slightly moist, loose	4.1
†	1637199	88		Light olive brown, fine to very fine SAND, trace medium SAND, slightly moist to moist, loose	7.6
+4	1637200	75		Top 24": Yellowish brown, fine(+) to medium SAND, trace coarse SAND, wet, loose; Bottom 12": Light olive brown, fine SAND, trace(-) medium SAND, micaceous, wet,	3.6
+	1637202	75		loose	2.2
+8	1637203	100		Top 34": Light olive brown to yellowish brown, fine SAND, trace medium SAND, wet loose, iron staining 20 to 30"	1.1
† † †	1637204	100		Bottom 14": Yellowish brown, fine to coarse SAND, wet, loose	2.4
+12	1 637206 1637206	58 58	·	Top 12": Reddish brown, fine to medium SAND, trace coarse SAND, wet, loose; Bottom 16": Grey CLAY, trace very fine Sand and Silt, moist, moderately dense, laminated	2.4 1.2
16					
+				Bottom of Boring at 16'	
20					
24					
Comments					

Project: SA Fire Training Area B **Start Date Boring ID** LEA Comm No: 68V7081 07/08/97 Client: Pratt & Whitney **End Date SA-SB-138** Location: East Hartford, CT 07/08/97 **Drilling Contractor:** J. Trzaski Logged By: Drilling Method: Sampling Method: Geoprobe MC Drilling Foreman: D. Brisson Drill Rig: GP-54 Surface Elevation: **GP-5400** Macro Core Groundwater Observations: Depth: At: Northing:

Depth: Depth:		kt: kt:	Hours Hours	Northing: Easting:		
	San	ple Informat	ion	Sample Description		
Elevation/ Depth	Sample Recovery		Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
	1637207	75		Top 10": Brown fine SAND, some Silt, trace organic matter, trace medium SAND, dry, loose; Bottom 8": Brownish yellow, fine SAND, trace Silt, trace medium Sand, slightly moist, loose	3.9	
+	1637208	75		Brown to light olive brown, fine(+) to very fine SAND, trace medium SAND, slightly moist to moist, loose	3.3	
+4	1637209	75		Top 26": Yellowish brown, fine(+) to medium SAND, moist to wet, loose, iron staining at 22 to 26"; Bottom 10": Light olive brown, fine SAND, trace(-) medium SAND, wet, loose	2.2	
† †	olive brown, fine SAND, trace(-) medium SAND, wet, loo			2.7		
	1637211	92		Top 14": Light olive brown, fine SAND, trace medium SAND, wet, loose; Middle 14": Yellowish brown, fine(+) to coarse SAND, wet, loose	1.6	
†	1637212	92		Bottom 16*: Strong brown fine to medium SAND, wet, loose	2.0	
12	1637213	96		Grey CLAY, little Silt and very fine Sand, wet, moderately dense, laminated, 6" layer of Silt at 10 to 16"	0.0	
† † †	1637214	96			0.4	
16				Bottom of Boring at 16'		
† + +						
20			·			
-24						
Comments	:		l			

SA Fire Training Area B Project: 68V7081 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Geoprobe MC Drilling Method: Sampling Method: Macro Core Groundwater Observations:

Depth:

At: Hours Start Date 07/08/97 **End Date** 07/08/97

Boring ID

SA-SB-139

J. Trzaski

D. Brisson

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation:

Depth:	At: Hours						
	Sample Information			Sample Description			
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
T°	1637215	71		Top 8": Brown, fine SAND, some Silt, trace organic matter, dry, loose; Bottom 9": Brownish yellow fine SAND, trace Silt, trace medium Sand, slightly moist, loose	0.1		
† † †	1637216	71		Light yellowish brown, fine SAND, grading to fine to medium SAND, slightly moist to moist, loose	1.4		
+4	1637217	71		Yellowish brown, fine to medium SAND, trace coarse SAND, wet, loose, orange, iron staining at 24 to 34"	0.9		
+	1637218	71			1.7		
8	1637219	92		Light olive brown, fine SAND, trace medium SAND, wet, loose	0.2		
† † †	1637220	92		As Above, grading to fine to medium SAND, trace coarse SAND, wet, loose	0.0		
12	1637221	100		Top 3": Reddish brown fine to coarse SAND, wet, loose; Bottom 45": Grey CLAY, little Silt and very fine Sand, wet, moderately dense, laminated	0.2		
† † †	1637222	100			0.0		
16				Bottom of Boring at 16'			
+ 20 + + +							
24							
Comments	:			<u> </u>	<u></u>		

-					
	SA Fire Training Area B m No: 68V7081			Start Date 07/08/97	Boring ID
Client: P	ratt & Whitney East Har East Hartford, CT	tford		End Date 07/08/97	SA-SB-140
Drilling Co Drilling M Sampling I Groundwa Depth: Depth:	ethod: Geoprobe MC Method: Macro Core ter Observations: At:	Hours Hours	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Logged By: J. T Drilling Foreman: Drill Rig: GP-54 Surface Elevation: Northing: Easting:	D. Brisson 400
				0 1 0 1.4	

Depth: Depth:		At: \t:	Hours Hours	Northing: Easting:	
	San	ple Informat	ion	Sample Description	I
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1637223	8.8		Top 10": Brown, fine SAND, some Silt, trace organic matter, dry, loose; Middle 18": Brownish yellow, fine SAND, trace Silt, trace medium Sand, slightly moist to moist, moderately dense	3.5
+ .	1637224	88		Bottom 14": Light yellowish brown, fine(+) to medium SAND, grading to fine SAND, moist, loose	3.8
+4	1637225	58		Top 12": Greyish brown, fine to medium SAND, wet, loose; Middle 8": Greyish brown, fine to very fine SAND, wet, loose	3.3
†	1637225	58		Bottom 8": Strong brown, fine to medium SAND, wet, loose	3.3
8	1637227	96		Yellowish brown to stong brown, fine(+) to coarse SAND, wet, loose, iron staining at 10 to 23"	2.4
† ∙ † †	1637228	96		Light olive brown, fine to very fine SAND, grading to fine SAND, wet, loose	1.3
12	1637229	100		Top 10": Strong brown, fine(+) to medium SAND, wet, loose; Bottom 38": Grey CLAY, little Silt, very fine Sand, wet, moderately dense, laminated	0.7
+	1637230	100			0.4
16				Bottom of Boring at 16'	·
+ -20					
-24					
Comments	:				<u> </u>

Start Date **Project:** SA Fire Training Area B Boring ID LEA Comm No: 07/08/97 68V7081 Client: Pratt & Whitney East Hartford **End Date SA-SB-141** East Hartford, CT Location: 07/08/97 J. Trzaski **Drilling Contractor:** LEA Logged By: Drilling Method: Geoprobe MC Drilling Foreman: D. Brisson Drill Rig: **GP-5400** Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: Easting: Hours Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637231 88 3.9 Top 8": Brownish yellow, fine SAND, little Silt, trace organic matter, dry, loose; Next 10": Brown, fine SAND, trace Silt, trace medium SAND, slightly moist, moderately dense 1637232 88 3.9 Nest 12": Brownish yellow, fine SAND, trace Silt, trace medium Sand, moist, loose; Bottom 12": Light yellowish brown, fine SAND, trace medium SAND, moist, loose 1637233 62 4.8 Yellowish brown to greyish brown, fine(+) to medium SAND, trace coarse(-) Sand, wet, loose 5.2 1637234 62 Greyish brown, fine to medium SAND, wet, loose, iron staining at 27 to 30" No Recovery - point lodged in Macro tube No Recovery - point lodged in Macro tube 1637237 Strong brown, fine SAND, trace medium SAND, wet, 1.4 loose, slightly coarsening downward 1.1 1637238 92 Grey CLAY, little Silt and very fine Sand, wet, loose, laminated 16 Bottom of Boring 16' 20

Comments:

EULUC	TIC BUR		UG			Page 1 of 1		
LEA Com	SA Fire Tra m No: 68 ratt & Whit East Hart	V7081 tney	еа В		Start Date Boring II 07/09/97 End Date SA-SB-14			
Drilling Co Drilling M Sampling 1	ontractor: lethod: G Method: ster Observa	LEA Seoprobe Macro C	Core Hours Hours		O7/09/97 Logged By: J. by Drilling Foreman: Drill Rig: GP-5 Surface Elevation: Northing: Easting:	Klapheke D. Brisson 400	- 	
	Sample Information				Sample Description			
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Moisture, S	Grain Size, Secondary Gr Sorting, Sphericity, Angula Structures, Density, Cohe	arity,	(ppm	
10	1637243	79		10": Top soil; 28": b slightly moist, loose	prown, fine to medium S	AND, dry to	1.6	
 	1637244	79				· .	1.9	
+4	1637245	69			n, medium to coarse SA , loose, becoming reddis		1.3	
† † ‡	1637246	69					1.0	
+8	1637247	83		16": As Above; 24": wet, loose	: Grey brown, fine to me	odium SAND,	1.4	
†	1637248	83					0.9	
+12	1637249	83		20": Brown to red be Gravel, wet, loose	rown, fine to coarse SA	ND, trace fine	0.3	
‡	1637250	83		20": Grey, CLAY and laminated	d SILT, trace fine Sand,	wet, dense,	0.3	
+ 16				Bottom of Boring at	16'			
20								
†				i.				
÷ 24			ı					
+	1	1 1					1	

Project: SA Fire Training Area B **Start Date Boring ID** LEA Comm No: 68V7081 Client: Pratt & Whitney LEA Comm No: 07/09/97 **End Date SA-SB-143** Location: East Hartford, CT 07/09/97 **Drilling Contractor:** J. Klapheke LEA D. Brisson

Logged By: J. Klaph Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: Northing: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations: Depth: At: Hours Easting:

рерии:	<i>L</i>	AL:	Hours	Easting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (と)	Blows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
	1637251	83		6": Top soil; 8": Yellow brown, fine to medium SAND, slightly moist, loose	0.8	
†	1637252	83		26": Brown, fine(+) to medium, slightly moist to moist, loose	1.0	
+4	1637253	75		16": Light brown, fine to coarse(+) SAND, trace fine Gravel, wet, slightly dense	0.0	
+	1637254	75		2": Dark red brown, fine to coarse(+) SAND and fine Gravel, wet, loose; 18": reddish brown, fine to coarse SAND, trace fine Gravel, wet, loose	0.4	
+8	1637255	96		22": As Above; 24": Grey brown, fine to medium SAND, wet, loose	0.0	
<u> </u>	1637256	96			0.0	
12	1637257	100		22": As Above; fine to coarse SAND; 14": Reddish brown, fine to coarse SAND, wet, loose; 12": Grey, CLAY with SILT, trace fine Sand, laminated, wet, dense	0.0	
†	1637258	100		Sier, trace fine dand, farinfated, wet, defise	0.0	
16				Bottom of Boring 16'		
24				·		
+						

Project: LEA Com	SA Fire Tra	aining Ar V7081	ea B	Start Date 07/09/97 Boring ID		
Client: P	ratt & Whit	ney		End Date CA CD 1	14	
Location:				07/09/97		
Drilling M Sampling	Method: ter Observa	LEA ieoprobe Macro (tions: At: At:		Logged By: J. Klapheke Drilling Foreman: D. Brisson Drill Rig: GP-5400 Surface Elevation: Northing: Easting:		
	San	ple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
°	1637259	83		8": Top soil; 32": Yellow brown, fine to medium SAND, slightly moist, loose	0.6	
† † †	1637260	83			0.4	
1 4 1	1637261	75		Brown to grey brown, fine to coarse(+) SAND, some fine Gravel, wet, loose	0.6	
<u> </u>	1637262	75			0.8	
-8	1637263	96		23": As Above; 23": Grey brown, fine to medium SAND, wet, loose	0.7	
+	1637264				0.8	
+12 + +	1637265	83		18": Grey brown, fine to coarse(+) SAND and fine GRAVEL, wet, loose	0.5	
† †	1637266	83		22": Yellowish brown, fine to medium SAND, wet, loose, occasional strong brown lenses, clay lense at tip(<1/4")	0.4	
+16 + - - - -	1637266			Bottom of Boring at 16'		
-24						
†						
Comments	5:					



Project: SA Fire Training Area B Start Date **Boring ID** 07/10/97 LEA Comm No: 68V7081 Client: Pratt & Whitney East Hartford **End Date** SA-SB-146 Location: East Hartford, CT 07/10/97 Logged By: J. Klapheke **Drilling Contractor:** Drilling Foreman: Drilling Method: Geoprobe D. Brisson **GP-5400** Sampling Method: Macro Core Drill Rig: **Groundwater Observations:** Surface Elevation: Hours Northing: Depth: Depth: Hours4 Easting: At: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1.4 1637278 75 10": Top soil; 2": Brown, coarse GRAVEL with fine to medium Sand, slightly moist, loose 1637279 75 0.8 24": Brown, fine to medium SAND, slightly moist, loose 1637280 71 Brown to grey, fine to coarse SAND with fine GRAVEL, wet, 1.0 loose 1637281 71 0.7 0.8 1637282 83 Brown to grey brown, brown fine to coarse SAND, little fine Gravel, wet, loose, septic odor 8.0 83 1637283 12 1637284 20": Grey fine GRAVEL, trace fine to coarse(+) Sand, wet, loose, septic odor 0.7 1637285 96 24": Grey to black to reddish brown, fine to medium SAND, wet, slightly dense, septic odor; 4": Grey CLAY, some Silt, trace fine Sand, wet, dense, laminated 16 Bottom of Boring at 16' 20 Comments:

Printed On: 1/20/1998

Start Date Project: SA Fire Training Area B Boring ID LEA Comm No: 07/10/97 68V7081 **End Date** Client: Pratt & Whitney East Hartford **SA-SB-147** Location: East Hartford, CT 07/10/97 J. Klapheke Logged By: **Drilling Contractor:** Geoprobe Drilling Foreman: D. Brisson Drilling Method: Sampling Method: Drill Rig: **GP-5400** Macro Core Surface Elevation: Groundwater Observations: Northing: At: Hours Depth: Hours Easting: At: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows /6" Sampie No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637286 88 10": Top soil; 32": Brown to yellow brown, fine to medium 1.1 SAND, slightly moist to moist, loose 0.2 1637287 88 75 0.4 1637288 Brown to dusky red, fine to coarse(+) SAND and fine GRAVEL, wet, loose 1637289 75 0.2 0.3 1637290 50 Brown, fine to coarse SAND, wet, loose 1637291 50 0.0 12 0.0 1637292 79 20": Reddish brown, fine GRAVEL, little fine to coarse(+) Sand, wet, loose 0.0 Printed On: 1/20/1998 79 1637293 17": Reddish brown, fine to medium SAND, wet, slightly dense; 1": Grey CLAY, trace fine Sand, wet, dense, laminated Bottom of Boring at 16' 24 Comments: 7 Project: SA Fire Training Area B Start Date Boring ID LEA Comm No: 68V7081 07/10/97 Client: Pratt & Whitney **End Date** SA-SB-148 Location: East Hartford, CT 07/10/97 **Drilling Contractor:** LEA Logged By: J. Klapheke Drilling Method: Geoprobe Drilling Foreman: D. Brisson Sampling Method: Macro Core Drill Rig: **GP-5400** Groundwater Observations: Surface Elevation: Depth: Hours Northing: At: Depth: At: Hours **Easting:** Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, cover (な) (ppm) Sedimentary Structures, Density, Cohesiveness 1637294 83 0.0 10": Top Soil; 30": Yellow brown, fine to medium SAND, slightly moist to moist, loose 1637295 83 0.0 1637296 62 0.0 Brown to grey brown, fine to coarse SAND, little fine Gravel, wet, loose, occasional iron staining, occasional iron staining 1637297 62 0.0 1637298 75 0.0 Brown to strong brown, fine to coarse SAND, trace fine Gravel, wet, loose 1637299 75 0.0 12 1637300 96 0.0 42": Brown to dark reddish brown, fine to coarse SAND, with fine Gravel, wet, slightly dense Printed On: 1/23/1998 1637301 96 0.0 4": Grey CLAY, trace Silt, trace fine Sand, wet, dense, laminated Bottom of Boring at 16' 20 Boring No: SA-SB-148 Comments:

SA Fire Training Area B Start Date Project: Boring ID LEA Comm No: 68V7081 07/11/97 Client: Pratt & Whitney East Hartford **End Date** SA-SB-149 Location: East Hartford, CT 07/11*/*97 **Drilling Contractor:** Logged By: J. Trzaski Drilling Foreman: **Drilling Method:** Geoprobe MC D. Brisson Drill Rig: **GP-5400** Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Northing: Depth: Hours Depth: At: Hours **Easting:** Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1637304 8.9 Top 1": Organic debris and matter; Middle 6": Brown SILT with fine SAND, trace fine Gravel, trace organic matter, dry, loose 1637305 75 6.2 Bottom 29": Yellowish Brown, fine SAND, trace medium SAND, trace Silt, slightly moist to moist, loose 1637306 58 Yellowish Brown, fine(+) to medium SAND, moist to wet, 6.1 loose, occasional iron staining, wet at 14" 1637307 1637308 58 4.1 1637309 96 3.8 Yellowish brown to orange brown, fine(+) to medium fine SAND, trace(-) medium SAND, wet, loose 1637310 96 2.5 1637311 92 2.3 Top 1": As Above, light olive brown; Middle 22": Light olive brown to reddish brown, fine to medium SAND, trace coarse SAND, wet, loose 1637312 1.5 Bottom 2": Grey CLAY, trace Silt and very fine Sand, wet, loose <u></u> Bottom of Boring at 16' 1/20/1998 20 24 Comments:

		M:	nours	Existing:	
	San	iple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
† °	1637313 1637314	88		Top 2": Organic, debris; Middle 12": Brown fine SAND and SILT, trace medium Sand, trace organic matter, dry, loose; Bottom 28": Yellowish brown, fine SAND, trace medium SAND, slightly moist, loose	4.5 3.4
+4	1637315	62		Yellowish brown, fine to medium SAND, trace(-) coarse SAND, moist to wet, loose, wet at 12"	2.6
† †	1637316	62			1.7
8	1637317	96		Light olive brown to yellowish brown, fine(+) to very fine SAND, trace medium SAND, wet, loose	2.4
†	1637318	96		Orange brown, fine(+) to medium SAND, wet, loose	1.4
12	1637319	92		Top 1": As Above, light olive brown; Next 20": Light olive brown to strong brown, fine to medium SAND, trace coarse SAND, wet, loose	1.0
†	1637320	92	_	Next 11": Light olive brown, fine(+) to medium SAND, wet, loose; Bottom 1": Grey varved CLAY, trace very fine Sand and Silt, wet, loose	0.7
+16 + + +				Bottom of Boring at 16'	
20					
+					
24					
Comments	<u>1</u>	┸			<u> </u>

Depth: NM

Project: SA Fire Training Area B 68V7081 07/14/97 LEÀ Comm No: Client: Pratt & Whitney **End Date** Location: East Hartford, CT 07/14/97 **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro Core Groundwater Observations:

Hours

Start Date

Boring ID SA-SB-152

Logged By: J. Klapheke Drilling Foreman: D. Bris Drill Rig: Geoprobe 5400 D. Brisson

Surface Elevation:

Northing:

Depth:	VI	At:	Hours	Easting:	
	San	nple Informat	tion	Sample Description	T
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1638950	83		6": Topsoil; 34": Dark yellow brown, fine to medium SAND, slightly moist to moist, loose	1.3
+	1638951			·	1.7
-	1638952	79		Brown to black, fine to coarse SAND, some fine Gravel, wet, slightly dense, slight septic odor	1.3
†	1638953 1638954				1.6
‡8 ‡	1638955	76		Brown to grey brown, fine to coarse(+) SAND and fine GRAVEL, wet, slightly dense, septic odor	1.9
‡	1638956				1.6
12	1638957	79		26": Grey, fine to coarse SAND and fine GRAVEL, wet, loose, septic odor; 6": Yellow brown, fine to medium SAND,	1.6
‡	1638958			wet, slightly d4ense, thickly laminated; 6": Grey, CLAY, trace fine SANd, wet, dense, thickly laminated	1.2
16				Bottom of Boring at 16'	
 					
20				·	
-24					
‡	i.				
Comments:	:				·

GEOLOG	FIC BOK	ING I	WG			•	Page 1 of 1
	SA Fire Train No: 68\		rea B	•		Start Date 07/14/97	Boring ID
Client: P	ratt & White East Hartf	ney .	Γ		Y	End Date 07/14/97	SA-SB-153
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: Go Method: ter Observat M A	LEA eoprob Macro ions: t: t:		S		Logged By: Drilling Fore Drill Rig: Surface Eleva Northing: Easting:	Seoprobe 5400
	Sam	ple Inform	ation			Sample Description	
				Colon	Duimour C	main Cina Casandar	- Casin Cinas

Depth: Depth:	NM		t: t:	Hours Hours	Northing: Easting:	
		Sam	ple Informa	tion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (2)	Blows ∕6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
·	1	638959	83		8": Topsoil; 32": Brown to dark yellow brown, fine to coarse SAND, slightly moist to wet, loose	1.6
†	1	638960			·	0.9
- 4	1	638961	75		Brown, fine to coarse SANd, wet, trace fine Gravel, loose, becoming grey at bottom 12"	1.1
†	1	638 962				1.7
1 8	1	638963	75		Grey to brown, fine to coarse SAND and fine GRAVEL, wet, loose	1.1
Į Į	1	638964				1.0
12		638965	83		20": As Above; 10": Brown to strong brown, fine to medium SAND, wet, slightly dense; 10": Grey, CLAY, trace Silt, trace fine SAND, wet, dense, laminated	1.3
<u> </u>	1	638966				1.1
+16	• -				Bottom of Boring at 16'	
- 20						
†	nts:					

Project: Tank Trailer Storage Area Add. Inv. Start Date Boring ID LEA Comm No: 68V7068 07/17/97 Client: Pratt & Whitney **End Date SA-SB-154** Location: East Hartford, CT 07/17/97 **Drilling Contractor:** D. Brisson Logged By: Drilling Foreman: Drilling Method: D. Brisson Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Depth: NR Hours Northing: At: Hours Easting: Depth: At: Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 O 1638793 96 Top 6": Red brown, fine to medium SAND, trace(+) coarse Sand and Gravel, dry, loose; Bottom 16: Dark brown, fine SAND, trace(+) medium Sand, trace(+) Silt, organics, dry, 1638794 96 Top 3": As Above, bottom 16"; Bottom 21": Light brown, fine SAND, trace(-) medium Sand, dry, dense 1638795 1638796 83 0.0 Grey brown, fine SAND, moist, loose 0.0 1638797 83 Top 10": As Above; Bottom 10": Light brown, fine to medium SAND, moist, loose 1638798 83 0.0 Light brown, fine SAND, trace(+) medium Sand, wet, loose 0.0 1638799 83 Light brown, medium to fine SAND, trace(+) corase Sand, wet, loose 12 1638800 83 0.0 Light brown, medium to fine SAND, trace(+) coarse Sand, wet, loose 0.0 1638801 83 As Above 16 Bottom of Boring at 16' 20 Comments:

roundwa epth: N epth:		At: At:	Hours Hours	Surface Elevation: Northing: Easting:	
evation/ pth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Size Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(pom)
°	1638810	96		Top 12": Light brown to red brown, coarse to fine trace Gravel, dry, loose; Bottom 10": Brown, fine t SAND, trace Silt, trace organic matter, moist, mod	to medium
† † †	1638811	96		Top 18": As Above; Bottom 6": Light brown, fine trace medium Sand, moist, loose	SAND,
+4	1638812	62		As Above	0.0
†	1638813	62		As Above	0.0
8	1638814	75		As Above	0.0
<u> </u>	1638815	75		Brown, fine to medium SAND, trace(-) coarse Sand loose	i, wet, 0.0
+12	1638816	83		As Above	0.0
+	1638817	83	-	As Above	0.0
16			·	Bottom of Boring at 16'	
20					
+24					



Boring No: SA-SB-158

Start Date

LEA Com	m No: 68	V7068	e Area Add	07/18/97 BOTHING ID	
Location:		ney ford, CT		End Date 07/18/97 SA-SB-15	59
Drilling Control of the Control of t	ethod: G Method: ter Observa R A	LEA Geoprobe Macro (tions: At: At:		Logged By: M. Budnick Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
	San	ple Informa	ution	Sample Description	I
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
, o	1638839	92		Top 10": Red brown, coarse to fine SAND, trace Gravel, moist, loose; Bottom 10": Light brown, fine SAND, little medium Sand, trace coarse Sand, moist, loose	
†	1638840	92		Top 20": As Above; Bottom 4": Light brown, fine to medium SAND, trace coarse Sand, moist, loose	
+4	1638841	75		As Above	
+	1638842	75		As Above	
8	1638843	83	.,	As Above, wet	
	1638844	83		Top 20": As Above; Bottom 4": Brown, medium SAND, little coarse Sand, trace fine Sand, wet, loose	
† 12 †	1638845	96		As Above Bottom 4"	
- - -	1638846	96		As Above	
16					
+ +				Bottom of Boring at 16'	
20					
-24					
<u> </u>					
Comments	5:				

LEA Com	Tank Traile m No: 68 ratt & Whit East Hart	V7068 mey	Area Add	Start Date 07/18/97 Boring : SA-SB-1	
Drilling Co Drilling M Sampling 1	ontractor: lethod: G Method: ter Observa	LEA Seoprobe Macro C	Core Hours Hours	Logged By: M. Budnick Drilling Foreman: D. Brisson Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1638847	96		Top 6": Red brown, coarse to fine SAND, trace Gravel, moist, loose; Bottom 16": Light brown, fine SAND, little medium Sand, trace coarse Sand, moist, loose	
ŧ	1638848	96		As Above, Bottom 16"	
+4	1638849	62		As Above	
‡	1638850	62		As Above	
8	1638851	83		As Above, wet	
‡	1638852	83		As Above	
+ 12	1638853	96		As Above	
Ī	1638854	96		As Above	
16				Bottom of Boring at 16'	
20					
-24					
+ + +					
Comments	5:				

Page 1

of

Project: Tank Trailer Storage Area Add. Inv.

Start Date

Boring ID

LEA Commission Number: 68V7068.

7/21/1997 **End Date**

SA-SB-161

Client:

Pratt & Whitney East Hartford-JBK Location: P&W East Hartford

LEA

7/21/1997 Logged by: Joe Trzaski

Drilling Contractor: Drilling Method:

Geoprobe

Drilling Foreman:

Sampling Method: **Groundwater Observation**

Macro Core

Drill Rig: Geoprobe 5400 **Surface Elevation:**

Depth: 8.0

at: 11:20

Northing:

0.00 143,915.5

Depth:

at:

Hours &

Easting:

181,468.5

Sample No. 1638859	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FI
1638859	88			1
}		•	top 1" black bituminous asphalt next 2" reddish brown coarse GRAVEL, some fine SAND, trace coarse SAND, dry, loose remainder brownish yellow to dark brown fine SAND, little SILT, dry to slightly moist, loose	0.0
1638860	88		brownish yellow to dark brown fine SAND, little SILT, dry to slightly moist, loose	0.0
1638861	58		top 6" brownish yellow to dark brown fine SAND, little SILT, moist, loose middle 10" pale brown fine (+) to very fine SAND, trace SILT, moist, loose	0.0
1638862	58		bottom 12" yellowish brown fine SAND, trace medium SAND, trace SILT, moist, loose occasional asphalt pieces on outside of whole sample tube	0.0
1638863	75	,	dark yellowsih brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, moderately dense. 1" layer of black SILT at 12" in sample	0.0
1638865	75		dark yellowsih brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, moderately dense. 1" layer of black SILT at 28" in sample	0.0
1638866	83		top 24" greyish brown fine to medium SAND, trace coarse SAND, wet, loose	0.0
1638867	83		top 24" greyish brown fine to medium SAND, trace coarse SAND, wet, loose bottom 16" light olive brown fine to very fine SAND, wet, loose	0.0
	1638862 1638863 1638865	1638862 58 1638863 75 1638865 75 1638866 83 1638867 83	1638862 58 1638863 75 1638865 75 1638866 83 1638867 83	top 6" brownish yellow to dark brown fine SAND, little SILT, moist, loose middle 10" pale brown fine (+) to very fine SAND, trace SILT, moist, loose 1638862 58 bottom 12" yellowish brown fine SAND, trace medium SAND, trace SILT, moist, loose occasional asphalt pieces on outside of whole sample tube 1638863 75 dark yellowsih brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, moderately dense. 1" layer of black SILT at 12" in sample 1638865 75 dark yellowsih brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, moderately dense. 1" layer of black SILT at 28" in sample 1638866 83 top 24" greyish brown fine to medium SAND, trace coarse SAND, wet, loose bottom 16" light olive brown fine to very fine SAND, wet, loose

LOUREIRO ENGINEERING ASSOCIATES, PC

Project: Tank Trailer Storage Area Add. Inv.

LEA Commission Number: 68V7068.

Client: Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford

Drilling Contractor:
Drilling Method:

LEA Geoprobe

Sampling Method:

Macro Core

Groundwater Observation

Depth: 8.0

at: 13:20

Depth: at:

Hours &

Page 1

of Boring ID

1

Start Date

7/21/1997

End Date

SA-SB-162

7/21/1997

Logged by: Joe Trzaski

Drilling Foreman:

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00

Northing:

143,884.2

Easting:

181,467.2

Depth	Sample	Informat	ion	Soil Description			
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FII		
0	1638868	83		top 1" black bituminous asphalt middle 4" red fine to coarse GRAVEL with fine to medium SAND, trace coarse SAND, dry, loose bottom 35" dark yellowish brown fine SAND, little SILT, trace medium SAND, dry to slightly moist, loose	0.0		
2	1638869	83		dark yellowish brown fine SAND, little SILT, trace medium SAND, dry to slightly moist, loose	1.0		
4	1638870	100		yellowish brown fine to very fine SAND, trace SILT, trace medium SAND, moist, loose	3.8		
6	1638871	100		top 8" yellowish brown fine to very fine SAND, trace SILT, trace medium SAND, moist, loose Asphalt layer at 8" bottom 16" dark brown fine SAND, trace SILT, trace medium SAND, moist, loose	2.8		
8 ,	1638872	50		dark yellowish brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, loose	1.8		
10	1638873	50		top 6" dark yellowish brown fine SAND, little SILT, little medium SAND, trace organic matter, wet, loose bottom 6" brownish yellow medium to vine SAND, wet, loose	2.6		
12	1638874	75		greyish brown medium to fine SAND, trace coarse SAND, grading to	1.6		
14	1638875	75		light olive brown fine SAND, wet, loose	1.1		

LΕΔ

LOUREIRO ENGINEERING ASSOCIATES, PC

100 Northwest Drive, Plainville, Connecticut 06062

Phone (860) 747-6181 Fax (860) 747-8822

SA-SB-162

SA Fire Training Area B **LEA Comm No: 68V7081** Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor: Drilling Method:** LEA Geoprobe MC Sampling Method: Macro Core Groundwater Observations:

Depth:

Start Date 07/02/97 End Date 07/02/97

Boring ID **SA-SB-128**

Logged By: J. Trzas Drilling Foreman: Drill Rig: GP-5400 Surface Elevation: Northing: J. Trzaski D. Brisson

Depth:		At:	Hour	Forting: Easting:		
	Sar	nple Informat	tion	Sample Description		
Elevation/ Depth	Sample Recovery		Plows	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
	1637112	88		Top 3": Organic debris; Middle 10": Brown, SILT and fine SAND, trace organic matter, trace medium Sand, dry, loose; Bottom 8": Brownish yellow, fine SAND, some Silt, trace medium Sand, slightly moist, moderately dense	0.7	
<u> </u>	1637113	88	·	Top 10": Same as last 8": Bottom 12": Light yellowish brown, SAND, grading to fine to medium SAND, slightly moist, loose	0.2	
T *	1637114	62		Light yellowish brown, fine to medium SAND, moist to wet, loose, wet at 20"	1.2	
‡	1637115	62			0.0	
+8	1637116	88		Light olive brown, fine SAND, wet, loose	0.1	
†	1637117	88		Yellowish brown, fine to medium SAND, iron staining throughout, wet, loose	0.3	
+12	1637118	67		Light olive brown, medium to fine SAND, trace coarse Sand, wet, loose	1.1	
‡	1637119	67		Light olive brown, fine to medium SAND, wet, loose	0.8	
+16 + + + + +				Bottom of Boring at 16'		
20						
24						
Comments	:					

	SA Fire Tra		ea B		Start Date	Boring II)
LEA Comr Client: Pr	ratt & White	V7081 ney		07/02/37			
Location:	East Hartf	ord, CT			07/02/97	SA-SB-12	29
Drilling Co Drilling Mo Sampling I Groundwar Depth: Depth:	ethod: G Method: ter Observat A	LEA eoprobe Macro C ions: At:			Logged By: J. 7 Drilling Foreman: Drill Rig: GP-5 Surface Elevation: Northing: Easting:	400	
	Sam	ple Informat	ion		Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Mois	imary Grain Size, Secondary Gr ture, Sorting, Sphericity, Angul ntary Structures, Density, Cohe	arity,	(ppm)
0	1637120	88		SAND, trace or moderately der	c debris; Next 12": Brown, Sirganic matter, trace medium Sise; Bottom 7": Brownish yello	Sand, dry, ow, fine SAND,	0.0
‡	1637121	88		dense	e medium Sand, slightly moist		0.0
+4	1637122	67		h brown, fine to	as last 7"; Bottom 14": Light very fine SAND, grading to fil	yellowish ne to medium	0.5
+	1637122	"			brown, fine to medium SANI	D, moist to wet,	0.5
+	1637123	67		loose, wet at 2	°O"		0.4
-8	1637124	83		As Above			0.7
† + +	1637125	83		Yellowish brow wet, loose	vn, medium to fine SAND, trad	ce coarse Sand,	0.2
12	1637126	62			n, fine to medium SAND, tracening throughout	ce Silt, wet,	1.2
† + +	1637127	62		Light olive brov	wn, fine(+) to medium SAND	, wet, loose	0.9
+16 + + + +				Bottom of Bori	ng 16'		
20							
-24						·	
+							1
Comments	:	<u> </u>					

Page 1 Start Date

of 1

Project: South Airport: Former Storage Area

2/6/1998

Boring ID

LEA Commission Number: 68V7102.

End Date

SA-SB-163

Client:

Pratt & Whitney East Hartford-JBK

2/6/1998

Location: P&W East Hartford Loureiro Engineering Asso **Drilling Contractor:**

Logged by: Boris Tomicic

Drilling Foreman: Jeff Klapheke

Direct Push **Drilling Method:** Sampling Method: Macro Core

Drill Rig: Geoprobe 5400

Groundwater Observation

Surface Elevation:

0.00 0.0

Depth: 7.0 Depth:

at: 10:45 Hours & at:

Northing: Easting:

0.0

				Dasting. 0.0	
Depth		Informat		Soil Description	PID/FID
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohestveness, Other	
0	1654011	71		0" - 2" bituminous 4" reddish brown COBBLE and PEBBLE, trace (+) medium Sand, dry, loose bottom 11" brown fine SAND, trace (+) medium Sand, dry, loose	0.0
2	1654012	71		brown medium SAND, some (+) fine Sand, dry, loose, poorly sorted	0.0
4	1654013	75		brown fine SAND, trace (+) medium Sand, dry, loose, 1" pebble lense at 6"	0,0
6 ,	1654014	75		brown fine SAND, trace (+) medium Sand, moist, loose, poorly sorted 7' wet	0.0
8	1654015	92		0" - 3" reddish brown medium SAND, some (+) fine Sand, wet, moderately dense 3" - 22" brown fine SAND and medium SAND, wet, loose	0.0
10	1654016	92		brown fine SAND and medium SAND, wet, loose	0.0
12	1654017	58		greyish brown fine SAND, some (+) medium Sand, wet, loose, mica	0.3
14	1654018	58		greyish brown fine SAND, some (+) medium Sand, wet, loose, mica	0.0
16 Comment	s:				

Start Date

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1

Project: South Airport: Former Storage Area LEA Commission Number: 68V7102.

2/6/1998

Boring ID

Client:

Pratt & Whitney East Hartford-JBK

End Date

SA-SB-164

Location: P&W East Hartford

Drilling Contractor:

Loureiro Engineering Asso Logged by: Boris Tomicic Drilling Foreman: Jeff Klapheke

2/6/1998

Sampling Method: **Groundwater Observation**

Drilling Method:

Direct Push Macro Core

Drill Rig: Geoprobe 5400

Depth:

7.0

at: 12:20

Surface Elevation: Northing:

0.00 0.0

Depth:

at:

Hours &

Easting:

0.0

	Recovery % 92	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other O" - 4" red COBBLES, trace (-) fine and medium Sand, moist, moderately dense, fibric organic matter 4" - 18" dark brown SILT, some (-) fine Sand, dry, moderately dense 18" - 22" brown fine SAND, trace (-) medium Sand, dry, loose, poorly sorted brown fine SAND, trace (-) medium Sand, dry, loose, poorly sorted	PID/FID ppm 0.0
1654020			organic matter 4"-18" dark brown SILT, some (-) fine Sand, dry, moderately dense 18"-22" brown fine SAND, trace (-) medium Sand, dry, loose, poorly sorted	0.0
	92		brown fine SAND trace (-) medium Sand dry loose poorly sorted	
1654022		ĺ	orden and order, alone (*) montain band, ary, 10000, poorly sorted	0.0
	83		0" - 14" brown fine SAND, trace (-) medium Sand, trace (+) Silt, dry, loose, poorly sorted 14" - 20" greyish brown medium SAND, trace (+) fine Sand, moist, loose, well sorted	0.0
1654023	83		greyish brown medium SAND, trace (+) fine Sand, moist, loose, well sorted 7 wet	0.0
1654024	67		greyish brown medium SAND, trace (+) fine Sand, wet, loose, well sorted	0.0
1654025	67		greyish brown medium SAND, trace (+) fine Sand, wet, loose, well sorted	0.0
1654026			grey medium SAND, some (+) fine Sand, trace (+) Pebbles, wet, loose, poorly sorted	0.0
1654027			grey medium SAND, some (+) fine Sand, trace (+) Pebbles, wet, loose, poorly sorted, black lense at 14'	0.0
1	1654026	1654026	1654026	grey medium SAND, some (+) fine Sand, trace (+) Pebbles, wet, loose, poorly sorted grey medium SAND, some (+) fine Sand, trace (+) Pebbles, wet, loose, poorly sorted,

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SA-SB-164

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1

Boring ID

South Airport: Former Storage Area

LEA Commission Number: 68V7102.

Client:

Project:

Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford

Drilling Contractor: Drilling Method:

Geoprobe

Sampling Method:

Macro Core

Hours

Groundwater Observation

Depth: 7.0 Depth:

at: 13:35

at:

Start Date 2/6/1998

End Date

SA-SB-165

2/6/1998 Logged by: Boris Tomicic

Drilling Foreman:

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00

Northing:

0.0

Easting:

0.0

	Jampic	Informatio	Soil Description	
Sample No.		Recovery I	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID
1654028	1654028	83	0" - 2" brown medium SAND, some (+) Cobbles and Pebbles, dry, dense, fibric matter 4" bituminous 6" - 20" brown fine SAND, trace (-) medium Sand, dry, loose, well sorted, Silt lense at 14"	0.0
1654029	1654029	83	brown fine SAND, some (-) medium Sand, dry, loose, poorty sorted	0.0
1654030	1654030	79 .	0" - 3" brown fine SAND, some (-) medium Sand, dry, loose, poorly sorted, black lense at bottom 3" - 19" greyish brown fine SAND, trace (-) medium Sand, moist, loose, poorly sorted	0.0
1654031	1654031	79	greyish brown medium SAND, some (-) fine Sand, moist, loose, poorly sorted 7 wet	0.0
1654032	1654032	69	greyish brown medium SAND, some (-) fine Sand, wet, loose, poorly sorted	0.0
1654033	1654033	69	greyish brown medium SAND, some (-) fine Sand, wet, loose, poorty sorted	0.0
1654034	1654034	63	greyish brown medium SAND with Pebbles, some (-) fine Sand, wet, loose, poorly sorted	0.0
1654035	1654035	63	greyish brown medium SAND, some (-) fine Sand, wet, loose, poorly sorted, dark lense at 15'	0.0
165	165	4035	64035 63	

LOUREIRO ENGINEERING ASSOCIATES, PC

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Start Date 2/6/1998

Boring ID

LEA Commission Number: 68V7102.

End Date 2/6/1998

SA-SB-166

Location: P&W East Hartford

Loureiro Engineering

Hours &

Drilling Contractor: **Drilling Method:**

Logged by: Boris Tomicic Drilling Foreman: Jeff Klapheke

Sampling Method:

Direct Push Macro Core

South Airport: Former Storage Area

Pratt & Whitney East Hartford-JBK

Drill Rig: Geoprobe 5400

Groundwater Observation

Surface Elevation:

0.00 0.0

Depth: 7.0 Depth:

Project:

Client:

at: 14:45 at:

Northing: Easting: 0.0

Depth	Sample	Informat	ion	Soil Description	PID/FID ppm
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0	1654036	85		0" - 4" dark brown fine SAND, some (+) COBBLES and PEBBLES, moist, dense, fibric matter 4" reddish brown fine SAND, some (-) Silt, dry, moderately dense bottom [sic] brown fine SAND, some (-) medium Sand, dry, loose	0.0
2	1654037	85		brown fine SAND, some (-) medium Sand, dry, loose	0.0
4	1654038	69		brown fine SAND, some (-) Silt, some (-) medium Sand, dry, loose	0.0
6	1654039	69		greyish brown medium SAND, some (+) fine Sand, moist, loose, poorly sorted 7 wet	0.0
8	1654040	79		greyish brown medium SAND, some (+) fine Sand, wet, loose, poorly sorted	0.0
10	1654041	79		greyish brown medium SAND, some (+) fine Sand, wet, loose, poorly sorted, dark lense at 11.5'	0.0
12	1654042	65		greyish brown medium SAND, trace (+) fine Sand, some (-) Pebbles, wet, loose, poorly sorted	0.0
14 	1654043	65		greyish brown medium SAND, trace (+) fine Sand, some (-) Pebbles, wet, loose, poorly sorted	0.0

Comments:

LOUREIRO ENGINEERING ASSOCIATES, PC

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of

South Airport: Former Storage Area Project:

LEA Commission Number: 68V7102.

Client: Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford

Drilling Contractor:

Loureiro Engineering A Direct Push

Hours &

Drilling Method: Sampling Method:

Macro Core

Groundwater Observation

Depth: 4.8

Depth:

at: 11:05

at:

Start Date 2/6/1998

Boring ID

End Date 2/6/1998

SA-SB-167

Logged by: Boris Tomicic

Drilling Foreman: Jeff Klapheke

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00

Northing:

0.0

Easting:

0.0

Sample Information			Soil Description	
Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FII
1654048	81		top 6" topsoil 6" - 20" dark red brown fine to coarse SAND, trace fine Gravel, slightly moist, loose	0.0
1654049	81		dark red brown fine to coarse SAND, trace fine Gravel, slightly moist, loose	0.0
1654050	83		0" - 8" red brown fine SAND, moist, loose 8" - 20" dark brown SAND, some fine Gravel, wet, loose 5.5' wet	0.0
1654051	83		dark brown SAND, some fine Gravel, wet, loose	0.0
1654052	96		0" - 6" brown coarse SAND, some fine Gravel, wet, loose 6" - 23" brown fine SAND, some fine Gravel, wet, loose	0.0
1654053	96		brown fine SAND, some fine Gravel, wet, loose	0.0
1654054	67		brown fine SAND, some fine Gravel, wet, loose	0.0
1654055	67		0" - 4" brown fine SAND, some fine Gravel, wet, loose 4" - 16" red brown coarse SAND, some fine Gravel, wet, loose	0.0
	1654048 1654049 1654050 1654051 1654052	% 1654048 81 1654049 81 1654050 83 1654051 83 1654052 96 1654053 96 1654054 67	% /6" 1654048 81 1654049 81 1654050 83 1654051 83 1654052 96 1654053 96 1654054 67	1654048 81 top 6" topsoil 6" - 20" dark red brown fine to coarse SAND, trace fine Gravel, slightly moist, loose 1654049 81 dark red brown fine to coarse SAND, trace fine Gravel, slightly moist, loose 1654050 83 0" - 8" red brown fine SAND, moist, loose 8" - 20" dark brown SAND, some fine Gravel, wet, loose 5.5' wet 1654051 83 dark brown SAND, some fine Gravel, wet, loose 1654052 96 0" - 6" brown coarse SAND, some fine Gravel, wet, loose 1654053 96 brown fine SAND, some fine Gravel, wet, loose 1654054 67 brown fine SAND, some fine Gravel, wet, loose

of

1

South Airport: Former Storage Area Project:

LEA Commission Number: 68V7102.

Pratt & Whitney East Hartford-JBK Client:

Location: P&W East Hartford

Loureiro Engineering **Drilling Contractor:**

Drilling Method: Direct Push Sampling Method: Macro Core

Groundwater Observation

Depth: 4.7 at: 12:11

Depth: at:

Hours &

Start Date 2/6/1998

Boring ID

Page 1

End Date 2/6/1998

SA-SB-168

Logged by: Boris Tomicic Drilling Foreman: Jeff Klapheke

Drill Rig: Geoprobe 5400

Surface Elevation:

Northing:

0.00 0.0

Easting:

0.0

Depth	Sample	Informat	ion	Soil Description	
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FII
0	1654056	. 88	·	0" - 4" topsoil 4" - 21" yellow brown SAND, some fine Gravel, dry, loose, coarsening downward rock at 6", asphalt at 12"	0.0
2	1654057	88		yellow brown SAND, some fine Gravel, dry, loose	0.0
4	1654058	96		0" - 8" yellow brown SAND, some fine Gravel, slightly moist, loose 8" - 23" brown coarse SAND, some fine Gravel, some fine Sand, moist to wet, loose	0.0
6	1654059	96		brown coarse SAND, some fine Gravel, some fine Sand, very moist to wet, loose	0.0
8	1654060	92		brown coarse SAND, some fine Gravel, some fine Sand, wet, loose	3.5
10 	1654061	92		brown coarse SAND, some fine Gravel, some fine Sand, wet, loose	0.0

Comments:



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SA-SB-168

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of

South Airport: Former Storage Area Project:

LEA Commission Number: 68V7102.

Client:

Pratt & Whitney East Hartford-JBK

Location: P&W East Hartford

Drilling Contractor:

Loureiro Engineering

Drilling Method: Sampling Method: Direct Push Macro Core

Groundwater Observation

Depth: Depth:

4.7

at: 13:42 at:

Hours &

2/6/1998 **End Date**

Start Date

SA-SB-169

Boring ID

2/6/1998

Logged by: Boris Tomicic

Drilling Foreman: Jeff Klapheke

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00

Northing: Easting:

0.0 0.0

Depth	Sample	: Informat	uon	Soil Description	
	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FII
0	1654062	92		0" - 4" brown to black fine SAND, organic matter 4" - 8" red brown fine SAND, little coarse Gravel, dry, loose 8" - 22" light brown fine SAND, little fine Gravel, dry, loose	0.1
2	1654063	92		light brown fine SAND, little fine Gravel, dry, loose	0.0
4	1654064	88		0" - 6" light brown fine SAND, little fine Gravel, dry, loose 6" - 7" red brown fine SAND, little coarse Gravel, dry, dense 7" - 21" grey brown coarse SAND, little fine Gravel, slightly moist to wet, loose	0.0
6	1654065	88		grey brown coarse SAND, little fine Gravel, slightly moist to wet, loose	0.0
8	1654066	88		grey brown coarse SAND, little fine Gravel, slightly moist to wet, loose	0.0
10	1654067	88		0" - 6" grey brown coarse SAND, little fine Gravel, slightly moist to wet, loose 6" - 21" grey to dark brown coarse SAND, some fine Gravel, wet, loose	0.0
12	1654068	88		grey to dark brown coarse SAND, some fine Gravel, wet, loose	0.0
14	1654069	88		grey to dark brown coarse SAND, some fine Gravel, wet, loose	3.5



LOUREIRO ENGINEERING ASSOCIATES, PC

South Airport: Former Storage Area

LEA Commission Number: 68V7102.

Pratt & Whitney East Hartford-JBK Client:

Location: P&W East Hartford

Drilling Contractor: Loureiro Engineering Associates

Drilling Method: Direct Push

Sampling Method: Macro Core

Groundwater Observation

Depth: 7.0

Project:

at: 14:45

Depth: at: Hours &

Start Date

of

1

Boring ID

2/6/1998

Page 1

End Date

SA-SB-170

2/6/1998

Logged by: Boris Tomicic

Drilling Foreman: Jeff Klapheke

Drill Rig: Geoprobe 5400

Surface Elevation:

0.00

Northing:

0.0

Easting: 0.0

Depth	Sample	Informat	tion	Soil Description	
-	Sample No.	Recovery %	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity Angularity, Sedimentary Structure, Density, Cohesiveness, Other	PID/FID ppm
0	1654070	88		0" - 4" reddish brown fine SAND, some (-) Pebbles, moist, dense (frost) 4" - 21" brown fine SAND, trace (+) medium Sand, dry, loose, poorly sorted	0.2
2	1654071	88		brown fine SAND, trace (+) medium Sand, dry, loose, poorly sorted	2.2
4	1654073	75		0" - 12" brown fine SAND, trace (-) medium Sand, dry, loose, poorly sorted 12" - 15" dark reddish brown medium SAND, some (-) fine Sand, trace (-) Pebbles, moist, loose 15" - 18" grey fine SAND, trace (-) medium Sand, moist, moderately dense	2.8
6	1654074	75		reddish brown fine SAND, some (+) medium Sand, moist, loose, poorly sorted 7 wet	0.0
8	1654075	79	-	reddish brown fine SAND, some (+) medium Sand, moist, loose, poorly sorted	4.3
10	1654076	79		reddish brown fine SAND, some (+) medium Sand, moist, loose, poorly sorted	3.9
12	1654077	90		brown meidum SAND, some (-) fine Sand, wet, loose, poorly sorted	0.0
14	1654078	90		brown meidum SAND, some (-) fine Sand, wet, loose, poorly sorted	3.5
Comment:					

Comments:

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SA-SB-170

· · · · · · · · _			rage I of I
Project: VPSA LEA Comm No: 68TR517	*	Start Date 7/23/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		End Date 7/23/96	SK-SB-22
Depth: At: I	Hours Hours	Drilling Foreman: Drill Rig: Geopr Surface Elevation: Northing: Easting:	
Sample Information		Sample Description	

Depth:	MM	A	t: t:	Hours	Fasting:	
		Sam	ple Informat	ion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (火)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10		1016326	83		Reddish brown, fine to medium SAND, little fine Gravel, slightly moist to wet, loose	2.0
Ŧ		1016327	83		As above	2.0
Ŧ		1016328	83		As above	5.6
†		1016329	83		As above	40.0
+4 + + + + 8 + + 1					Bottom of boring at 4'	
16						
+ + 20						
+ 24						

Project: VPSA LEA Comm No: 68TR517	Start Date 7/23/96	Boring ID
Client: Pratt & Whitney	End Date	SK-SB-23
Location: East Hartford, CT	7/23/96	3K-3D-23
Drilling Contractor: LEA	Logged By: M.	Budnick

Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: Drilling Foreman: J. Klap Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Geoprobe Macro core J. Klapheke

Hours ₹

Depth: Depth:	NM	At: At:	Hours Hours	♥ Northing: ♥ Easting:			
		Sample Informs	ation	Sample Description			
Elevation/ Depth	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
10	10163			Reddish brown, fine to medium SAND, little fine Gravel, slightly moist to wet, loose	2.8		
Ŧ	10163	81 83		As above	1.0		
Į	10163	32 83		4": As above; 8": Olive CLAY, wet	20.0		
‡	10163	83			75.0		
				Bottom of boring 4'			
		pholo hooks	illad wish b	entenite chine upon completion			
Comme	ars: Bol	eriole Dackt	mea with De	entonite chips upon completion.			



GEOLOG	FIC BORING L	OG		,	Page 1 of 1	
Project: LEA Comr	VPSA n No: 68TR517			Start Date 7/23/96	Boring II)
Client: P	ratt & Whitney East Hartford, CT			7/23/96 End Date 7/23/96	SK-SB-2	
Drilling Co Drilling Mo Sampling Mo Groundwar Depth: N Depth:	ethod: Geoprobe Method: Macro of ter Observations:			Logged By: M. Drilling Foreman: Drill Rig: Geop Surface Elevation Northing: Easting:	: J. Klapheke crobe 5400	
	Sample Informa	tion		Sample Description		
Elevation/ Depth	Sample Recovery	Blows /6"	Color, Primar Moisture	ry Grain Size, Secondary Gr , Sorting, Sphericity, Angul	rain Sizes, arity,	(ppm)

Depth:	1	At:	Hours	Easting:	
	Sar	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016334	88		Reddish brown, fine to medium SAND, little fine Gravel, slightly moist to wet, loose	0.4
Ŧ	1016335	88		As above	9.0
Ŧ	1016336	88		As above	2.0
‡	1016337	88		As above	2.8
+4 + + + + + 8				Bottom of boring at 4'	
12					
16					
20					
Comments	s: Boreho	ale hackf	illed with he	entonite chips upon completion.	

GEOLO(OGIC BORING LOG			A 3	Page 1 of 1		
Project: LEA Com	VPSA	STR517			Start Date 7/23/96	Boring II)
Client: P	ratt & Whit East Hart	tney			End Date 7/23/96	SK-SB-25	
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observa IM	LEA Geoprobe Macro c itions: At:	ore Hours Hours	至	Logged By: M. Drilling Foreman Drill Rig: Geor Surface Elevation Northing: Easting:	: J. Klapheke probe 5400	
	San	nple Informat	ion		Sample Description		
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Moisture	ry Grain Size, Secondary G , Sorting, Sphericity, Angu y Structures, Density, Cohe	larity,	(ppm)
To	1016338	92		Reddish brown, fir	ne to medium SAND, little	fine Gravel,	4.8

evation/ epth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
70	1016338	92		Reddish brown, fine to medium SAND, little fine Gravel,	4.8
‡	1016339	92		slightly moist to wet, loose As above	300.0
‡	1016340	92		As above	5.0
‡	1016341	92	 -	As above	45.0
+4				Bottom of boring at 4'	
7					
Ī					
Ī_8					
1					
<u> </u>					
‡					
+12					
‡					
‡					
‡					
16					
‡		1			
†					
‡					
20					!
Ŧ					
†					
Ī					
124					
Ī	[
	. Borebo	le hackf	illed with h	entonite chine upon completion	
Comments	: Boreho	le backf	filled with b	entonite chips upon completion.	



GEOFOGIC POWERS FOR	Page 1 of 1
Project: VPSA LEA Comm No: 68TR517	Start Date Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	End Date 7/23/96 SK-SB-26
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core	Logged By: M. Budnick Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400
Groundwater Observations: Depth: NM At: Hours Flows Hours	Surface Elevation: Northing: Easting:

Depth: N Depth:	M A	At: At:	Hours Hours	Northing: Easting:	
	San	nple Informa	tion	Sample Description]
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1016342	88		Reddish brown, fine to medium SAND, little fine Gravel, slightly moist, wet, loose	8.0
Ī	1016343	88		As above	14.0
‡	1016344	88		As above	11.0
‡	1016345	88		4.5": As above; 6": Olive, CLAY, wet	600.0
+4 +8 +12 +16 +20				Bottom of boring 4'	
Comments				entonite chips upon completion.	





VPSA **Start Date** Project: **Boring ID** 68TR517 7/23/96 LEA Comm No: Client: Pratt & Whitney **End Date SK-SB-27** Location: East Hartford, CT 7/23/96

Logged By: M. Budnick Drilling Foreman: J. Klar Drill Rig: Geoprobe 5400 **Drilling Contractor:** Drilling Method: Geoprobe J. Klapheke Sampling Method: Macro core

Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing:

Depth: Depth:	NM	At:	Hours Hours	Northing:	
	Si	imple Informa	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016346	79		Reddish brown, fine to medium SAND, little fine Gravel,	2.3
Ŧ	1016347	79		Little Silt, moist to wet, loose, strong petroleum odor As above	26.0
ŧ	1016348	79		As above	12.0
‡	1016349	79		As above	34.0
8				Bottom of boring 4'	
112					
16					
+ 20 + - - - - - - - - - - - - - - - - - -					
‡					
Commer	its: Boreh	ole backf	illed with be	entonite chips upon completion.	<u> </u>



	FIC BOR	ING L	OG		Page 1 of 1	
Project: LEA Comi	VPSA	TR517		Start Date 7/24/96	Boring II)
Client: P	ratt & Whit	ney	€	End Date	SK-SB-2	0
Location:	East Hart			7/24/96		<u> </u>
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observa M A	LEA seoprobe Macro c tions: \t: \t:	ore Hours Hours	Logged By: Drilling Fore Drill Rig: Surface Eleva Northing: Easting:	Geoprobe 5400	
	San	iple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondar Moisture, Sorting, Sphericity, A Sedimentary Structures, Density, 6	ingularity,	(ppm)
T°	1016351	100		Reddish brown, fine to medium SAND, trace Silt, slightly moist, loose	little fine Gravel,	40.0
+	1016352	100		As above, moist		150.0
‡	1016353	100		As above		61.0
Ī.	1016354	100		As above, wet		41.0
8				Bottom of boring at 4.0'		

Comments:

- 20

Borehole backfilled with bentonite chips upon completion.

	VPSA				Start Date	Boring II	
LEA Com	m No: 68	TR517	· .	1. 15 Car	7/24/96	DOT IN I	,
	ratt & Whit				End Date	SK-SB-2	0
ocation:	East Hart	ford, CT	E.	ej V	7/24/96	3K-3D-Z	J '
Orilling Co Orilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observa M	LEA Seoprobe Macro c tions: At:	ore Hours Hours	₽	Logged By: L. B Drilling Foreman: Drill Rig: Geopt Surface Elevation: Northing: Easting:	obe 5400	
	San	nple Informat	ion		Sample Description		
Elevation/ Depth	Sample No.	Recovery (次)	Blows /6°	Moist	mary Grain Size, Secondary Graure, Sorting, Sphericity, Angula stary Structures, Density, Cohes	rity,	(ppm)
70	1016355 1016356	100		Dark reddish br trace Silt, slight	own, fine to coarse SAND, lit	tle fine Gravel,	125 125
Ŧ	1016357	100		As above, mois			1000+
Ŧ	1016358	100		As above			810
‡	1016359	100		Reddish brown	, fine to medium SAND, wet,	slightly dense	290
† 4		1		Bottom of borin	ng at 4.0'		,
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Comments:

Borehole backfilled with bentonite chips upon completion.



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Project: VPSA LEA Comm No: 68TR517		Start Date 7/24/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		End Date 7/24/96	SK-SB-30
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core Groundwater Observations: Depth: NM At: Depth: At:	Hours ♀ Hours ♀		orobe 5400 [°]

Depth: Depth:	NM A	At: At:	Hours Hours	¥ Northing: Easting:	_		
	San	Sample Information		Sample Description			
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
ΰ	1016360	100		Dark reddish brown, fine to coarse SAND, little fine Gravel, trace Silt, moist, loose	33		
<u> </u>	1016361	100		Brown, fine(+) to medium SAND, some Silt, moist, slightly	19.0		
1	1016362	100		\dense _As above	6.5		
+ .	1016363	100		As above, wet	7.0		
				Bottom of boring at 4.0'			
† † † 12 †							
+ + 16	;			·			
	,						
- 24							
Comme	nts: Boreho	ole backfil	led with be	entonite chips upon completion.	<u> </u>		

Project: **VPSA** LEĂ Comm No: 68TR517 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core Groundwater Observations:
Depth: NM At:
Depth: At:

Start Date 7/24/96 **End Date** 7/24/96

Boring ID SK-SB-31

Logged By: L. Bianchi
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation: J. Klapheke

Northing:

Depth:	At: Hours					
	San	nple Inform	ation	Sample Description		
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
70	1016364	100		Dark reddish brown, fine to coarse SAND, little fine Gravel, _trace Silt, moist, loose	2.0	
Ŧ	1016365	100		Brown, fine to medium SAND, trace Silt, moist, slightly	1.4	
Ŧ	1016366	100		dense	17.0	
‡	1016367	100		As above As above, wet	12.0	
†4				Bottom of boring at 4.0'		
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Comments	Roseba	le beckf	illed with h	entonite chips upon completion.	L	
Comments	s: Borenc	NA DACKI	meu with De	antonite chips upon completion.		
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Sampling Method: Macro core Groundwater Observations: Depth: NM At: Hours Depth: At: Hours Sample Information			Hours	Surface Elevation: Northing: Easting: Sample Description	
Elevation/ Depth	Sample No.	Recovery	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016368	100		Yellowish brown, fine to coarse SAND, trace Silt, slightly	3.2
‡	1016369	100		Reddish brown, fine(+) to coarse SAND, little Silt, moist,	2.4
‡	1016370	100		\slightly dense	1.9
1	1016371	100		As above	1.7
+4		 		Olive grey, SILT, trace fine Sand, wet, slightly dense Bottom of boring at 4.0'	
12					
20					

Project: VPSA LEA Comm No: 68TR517 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations: At:

Depth: NM Depth:

Hours

Start Date 7/24/96 **End Date** 7/24/96

Boring ID **SK-SB-33**

Logged By: L. Bianchi Drilling Foreman: J. Klar Drill Rig: Geoprobe 5400 J. Klapheke

Surface Elevation:

Northing:
Easting:

Depth: N		At: At:	Hours	Rortning:	
	San	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016372	100		Dark reddish brown, fine(+) to coarse SAND, little fine Gravel, trace Silt, moist, loose	0.3
Ŧ	1016373	100		Yellowish brown, SILT and fine SAND, moist, slightly dense	0.5
Ŧ	1016374	100		As above	0.4
‡	1016375	100		As above, wet	0.5
+4				Bottom of boring at 4'	
-8					
12					
16					
20					
24					
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Project: VPSA LEA Comm No: 68TR517		Start Date 7/24/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT		7/24/96 End Date 7/24/96	SK-SB-34
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core Groundwater Observations: Depth: NM At: I	Hours ₹		robe 5400
Sample Information		Sample Description	

Depth:	Ā	kt:	Hours	Easting:	
	Sam	ple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016376	100		Dark reddish brown, fine(+) to coarse SAND, with Silt, trace fine Gravel, slightly moist, loose	0.9
Ŧ	1016377	100		Yellowish brown, fine(+) to medium SAND, trace Silt,	0.5
Ŧ F	1016378	100		\moist, loose	0.5
1	1016379	100		As above	0.2
+4 -		 		As above, wet Bottom of boring at 4.0'	
16					
20					
-24					
		1		entonite chips upon completion.	L



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	VPSA	TR517			Start Date	Boring II)
LEA Comr Client: Pi	n No: 68 ratt & Whiti	Ney Inoi/	<		7/24/96 End Date	-	
Location:	East Hartf	ord, CT	A Park	The second secon	7/24/96	SK-SB-3	ხ
Drilling Co	ntractor:	LEA			Logged By: L. i	Bianchi Klashala	
Drilling Mo Sampling N	etnoa: G Method:	eoprobe Macro c			Drilling Foreman Drill Rig: Geop	J. Klapheke robe 5400	
Groundwat	ter Observat	ions:			Surface Elevation	:	
Depth:		t:	Hours Hours	♀ •	Northing: Easting:		
Depth:		t: ple Informat			Sample Description		
Elevation/	Sam	pe monas		Color. Pr	imary Grain Size, Secondary G	rain Sizes	1
Depth	Sample No.	Recovery (火)	Blows /6"	Mois	ture, Sorting, Sphericity, Angul ntary Structures, Density, Cohe	arity,	(ppm)
l	1016380	60			rown, fine to coarse SAND, to ghtly moist, loose	ace Silt, trace	0.5
+	1016381	60			n, fine SAND, some Silt, moi	st, loose	0.2
Ī l	1016382	60			n, fine to medium SAND, tra		1.4
+ 1	1016383	60			n, fine to coarse SAND, trace	Silt, wet,	0.9
† 4	:	 		Voose		/	1
+				Bottom of bori	ng at 4.0'		
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+ 20							1
+ 20							
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Comments	: Borehol	e backfil	led with be	ntonite chips up	on completion.		
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VPSA Project: LEA Comm No: 68TR517 Client: Pratt & Whitney Location: East Hartford, CT LEA

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations:
Depth: NM At:
Depth: At:

Hours Hours

Start Date 7/24/96 **End Date** 7/24/96

Boring ID

SK-SB-36

Logged By: L. Bianchi Drilling Foreman: J. J. Klapheke Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Easting:

Depth:	At: Hours			₹ Easting:		
Elevation/ Depth Sample No.	San	nple Informa	tion	Sample Description		
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1016384	100		Yellowish brown, fine SAND and SILT, moist, slightly dense	0.1	
‡	1016385	100		Brown, fine SAND, some Silt, moist, slightly dense	0.1	
‡	1016386	100		As above	0.2	
‡	1016387	100		As above, wet	0.1	
+4				Bottom of boring at 4.0'		
<u> </u>						
+8						
‡						
Ŧ						
+12						
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16						
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‡			:			
Comments	: Borebo	le backfi	illed with he	entonite chips upon completion.	<u> </u>	

VPSA Project: Start Date **Boring ID** LEA Comm No: 68TR517 7/24/96 Client: Pratt & Whitney **End Date SK-SB-37** Location: East Hartford, CT 7/24/96 Logged By: L. Bianchi
Drilling Foreman: J. Klapheke
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: LEA **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe Macro core **Groundwater Observations:** Depth: NM Hours Depth: At: Hours Easting:

	Sam	Sample Information Sample Description		Sample Description	
Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
70	1016388			Reddish brown, fine(+) to coarse SAND, little Silt,	0.2
‡	1016389	1		Yellowish brown, fine to medium SAND, trace Silt, moist,	0.3
ŧ	1016392	+		\slightly dense /	0.2
Ī	1016393	ļ		As above	0.5
1.	1016393			As above, wet	0.8
† † †				Bottom of boring at 4'	
-8			·		
+12 +					
16					
20					
Comment	s: Boreho	le backf	illed with I	pentonite chips upon completion.	



Groundwater Observations:

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: **LEA** Geoprobe

Macro Core

Start Date 8/27/96 **End Date** 8/27/96

Boring ID SK-SB-38

Logged By: L. B Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

4	tions: At: At:	Hours Hours	Surface Elevation: Northing: Easting:		
Sample Information			Sample Description		
Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
1017409	100		4": Concrete; 3": Subbase; 5": Dark reddish brown, fine to medium SAND and SILT, little coarse Sand, trace fine Gravel, moist, slightly dense; 11": Yellowish brown, fine to medium SAND, some Silt, moist, slightly dense	0.1	
1017410	100		As above	0.3	
1017411	100		Dark brown, fine SAND, with Silt, some medium Sand, little coarse, very moist, slightly dense	2.6	
1017412	100	:	Dark red, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, trace coarse Gravel, moist, very dense	3.2	
1017413	100		As above	33.	
1017414	100		Dark brown, fine to medium SAND, some Silt, little coarse Sand, wet, slightly dense	72.	
1017415	100	-	Dark grey, fine to medium SAND, some Silt, little coarse Sand, wet, loose	31.0	
1017416	100		As above	7.6	
1017417	100		Grey, medium to coarse SAND, some fine, trace Silt, trace(-) fine Gravel, wet, loose	1.0	
1017418	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
			Bottom of boring at 20.0'		
		ļ			
	Sample No. 1017409 1017410 1017411 1017412 1017414 1017415 1017416 1017417	At: Sample Informati	Sample Information Sample No. Recovery (%) Blows /6° 1017409 100 1017410 100 1017411 100 1017412 100 1017413 100 1017416 100 1017417 100	Sample Information Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness 1017409 100 4": Concrete; 3": Subbase; 5": Dark reddish brown, fine to medium SAND and SILT, little coarse Sand, trace fine Gravel, moist, slightly dense; 11": Yellowish brown, fine to medium SAND, some Silt, moist, slightly dense; 11": Yellowish brown, fine to medium SAND, some Silt, moist, slightly dense 1017411 100 Dark brown, fine SAND, with Silt, some medium Sand, little coarse, very moist, slightly dense 1017412 100 Dark red, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, trace coarse Gravel, moist, very dense 1017413 100 Dark brown, fine to medium SAND, some Silt, little coarse Sand, wet, slightly dense 1017414 100 Dark prown, fine to medium SAND, some Silt, little coarse Sand, wet, slightly dense 1017415 100 Dark prown, fine to medium SAND, some Silt, little coarse Sand, wet, loose 1017416 100 As above 1017417 100 Grey, medium to coarse SAND, some fine, trace Silt, trace(-) fine Gravel, wet, loose 1017418 100 Olive grey, varved CLAY, trace Silt, wet, stiff	

Printed On: 6/16/1998

Project: X-415 Area 68TR656 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Large Bore

Groundwater Observations: Depth: NM

Hours

Start Date 7/16/96 **End Date** 7/16/96

Boring ID NK-SB-26

Logged By: L. Bi Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400

Surface Elevation:

Northing:

Elevation/ Depth	Sample No.	nple Informa	ition	Sample Description		
Depth	Sample	1 1				
10	110.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
†	1016016	90		12": Black, fine SAND, some medium Sand, little Silt, trace coarse Sand, moist, loose, organics/root fragments; 11": Light reddish bown, fine to medium SAND, little medium	1.8	
Ī [1016017 1016018	90		Sand, trace(+) Silt, trace(-) coarse Sand, moist, loose Light yellowish brown, fine to medium SAND, some Silt, trace(+) coarse Sand, wet (≈3.0), loose	5.4 5.9	
+4	1016019	100		As above	5.7	
+	1016020	100		Dark yellowish brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, trace(-) fine Gravel, wet, loose	5.2	
8	1016021	100		Olive brown, CLAY (varved), with fine Sand, trace Silt, stiff, wet	2.5	
‡	1016022	100		Olive gray, varved CLAY, trace Silt, trace(-) fine Sand, stiff, wet	5.1	
+12	1016023	100		As above	1.8	
+	1016024	100		As above	1.2	
16				Bottom of boring at 15.0'		
20						
-24						
Comments	: Boreho	ole backf	illed with be	entonite chips upon completion.		

Boring ID End Date NK-SB-27 7/15/96

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Large Bore

Groundwater Observations:

Depth: NM Hours At:

Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Depth:		At:	Hours	Easting:			
Elevation/ Depth	San	nple Informat	ion	Sample Description			
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm		
,	1016000	100		8": Black, fine SAND and SILT, some medium Sand, trace coarse Sand, moist, loose, organics; 15": Light reddish brown, fine SAND and medium SAND, some coarse Sand,	5.2		
+	1016001	100	:	trace(+) Silt, trace(-) fine Gravel, very moist, loose As above, strong hydrocarbon odor, wet at ≈3.0'	59.0		
-4	1016002	70		Yellowish brown, fine SAND, with medium Sand, some coarse Sand, little Silt, trace(-) fine Gravel, loose, wet	2.7		
†	1016003	70		As above	2.9		
8	1016004	100		Olive brown, CLAY (varved), little Silt, trace fine Sand, stiff, wet	2.1		
†	1016005	100		Olive gray, varved CLAY, trace(+) Silt, trace(-) fine Sand, stiff, wet	3.4		
+12	1016006	100		As above	2.4		
†	1016007	100		As above	2.0		
16				Bottom of boring at 15.0'			
20							
24							
Comments	: Boreho	le backfil	led with he	entonite chips upon completion.			

Comments:

Borehole backfilled with bentonite chips upon completion.

X-415 Area Project: LEĂ Comm No: 68TR656 Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor:
Drilling Method: Geoprobe Sampling Method: **Large Bore**

Groundwater Observations:

Depth: NM Depth:

Hours



Boring ID NK-SB-28

Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing: Easting:

Depth:	At: Hours						
	San	Sample Information Sample Description		Sample Description			
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
0	1015991	100		7": Black, fine SAND and SILT, some medium Sand, trace coarse Sand, slightly moist, loose; 16": Light reddish brown, fine SAND and medium SAND, some coarse Sand,	5.0		
Ī	1015992 1015993	100		trace Silt, trace(-) fine Gravel, very moist, loose As above, hydrocarbon odor, wet at ≈3.0'	55.0 51.0		
+4	1015994	80		Yellowish brown, fine SAND and medium SAND, some coarse Sand, trace Silt, trace(-) fine Gravel, wet, loose	3.6		
+	1015995	80	11 Fa 14	As above	3.9		
+8 +	1015996	95		Olive brown, varved CLAY, some Silt, little fine Sand, stiff, wet	2.0		
I I	1015997	95		Olive gray, CLAY, trace(+) Silt, trace (-) fine SAND, stiff, wet	1.9		
12	1015998	100		As above	2.1		
Ī	1015999	100		As above	2.2		
16				Bottom of boring at 15.0'			
20							
‡ ‡ ‡							
24							
Comments	: Boreho	ole backf	illed with be	entonite chips upon completion.	<u> </u>		



Start Date **VPSA** Project: **Boring ID** 7/24/96 LEA Comm No: 68TR517 Client: Pratt & Whitney **End Date** SK-SB-29 Location: East Hartford, CT 7/24/96 **Drilling Contractor: LEA** Logged By: L. Bianchi Drilling Foreman: **Drilling Method:** Geoprobe J. Klapheke Drill Rig: Geoprobe 5400 Sampling Method: Macro core Groundwater Observations: Depth: NM At: Surface Elevation: Hour Northing: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1016355 1016356 100 125 125 Dark reddish brown, fine to coarse SAND, little fine Gravel, trace Silt, slightly moist, loose 1016357 100 1000+ As above, moist 1016358 100 810 As above 1016359 100 290 Reddish brown, fine to medium SAND, wet, slightly dense Bottom of boring at 4.0' 12 16 20 24 Boring No: SK-SB-29 Borehole backfilled with bentonite chips upon completion. Comments:

				rage 1 of 1	
	VPSA	TR517		Start Date 7/24/96 Boring II)
LEA Com	ratt & Whit	ney		End Date	li li
Location:	East Harti	ford, CT		7/24/96 SK-SB-3	<u> </u>
Drilling Co Drilling M Sampling I Groundwa Depth: N Depth:	ethod: G Method: ter Observat M A	LEA eoprobe Macro d tions: At:	core Hous Hours	Logged By: L. Bianchi Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
	Sam	ple Informs	ition	Sample Description	
Elevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1016360	100		Dark reddish brown, fine to coarse SAND, little fine	33
İ	1016361	100		Gravel, trace Silt, moist, loose Brown, fine(+) to medium SAND, some Silt, moist, slightly	19.0
Ŧ	1016362	100		dense	6.5
‡	1016363	100		As above As above, wet	7.0
+4				Bottom of boring at 4.0'	
† † † †				Bottom or boning at 4.0	
‡				·	
12					
16					
+	-			.*	
20					
24					
‡			•		
Comments	: Borehol	le backfi	lled with b	entonite chips upon completion.	1
					_

ÆÀ Comi lient: P ocation:	ratt & White East Hartenter:	BTR517 tney ford, CT LEA Geoprobe			Start Date 7/24/96 End Date 7/24/96 Logged By: L. E Drilling Foreman:	Boring II SK-SB-3 J. Klapheke	1
ampling I	Method: ter Observa	Macro ontions: At: At:	core Hours Hours	P	Drill Rig: Geop Surface Elevation: Northing: Easting:	robe 5400	
levation/	Sample No.	Recovery	Blows /6"		Sample Description ry Grain Size, Secondary Gr , Sorting, Sphericity, Angula		
			/6 ·	Sedimentar	y Structures, Density, Cohes	iveness	(ppm)
0	1016364	100		trace Silt, moist, lo	n, fine to coarse SAND, lit pose dium SAND, trace Silt, mo		2.0
ł	1016366	100		dense	ulum SAND, trace Siit, mo	ist, slightly	17.0
Ŧ	1016367	100		As above As above, wet			12.0
				Bottom of boring a	it 4.0'		
Comments	: Boreho	ole backfil	lled with b	pentonite chips upon (completion.		

GEOEGGIO BOILLIO E O			rage 1 of 1
Project: VPSA		Start Date	Boring ID
LEA Comm No: 68TR517		7/24/96	201116112
Client: Pratt & Whitney	*	End Date	SK-SB-32
Location: East Hartford, CT	.≱/	7/24/96	3K-3D-3Z
Drilling Contractor: LEA			Bianchi
Drilling Method: Geoprobe		Drilling Foreman	n: J. Klapheke
Sampling Method: Macro core		Drill Rig: Geo	probe 5400
Groundwater Observations:		Surface Elevatio	n:
Depth: NM At: Hours	9号	Northing:	
Depth: At: Hours		Easting:	
Sample Information		Sample Description	

Elevation/	Sam	ple Informati			
Sevation/			vu j	Sample Description	l
Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
To	1016368	100		Yellowish brown, fine to coarse SAND, trace Silt, slightly	3.2
‡	1016369	100		moist, loose Reddish brown, fine(+) to coarse SAND, little Silt, moist,	2.4
‡	1016370	100	7	slightly dense	1.9
İ	1016371	100	, _	As above	1.7
4				Olive grey, SILT, trace fine Sand, wet, slightly dense Bottom of boring at 4.0'	
-8					
+12					
+16	_			.*	
+20 + + + + + + + + + + + + + + + + + +					
]]			i

Project: VPSA
LEA Comm No: 68TR517
Client: Pratt & Whitney
Location: East Hartford, CT
Drilling Contractor: LEA

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro core
Groundwater Observations:

Depth: NM

At: At: Hours

Start Date 7/24/96 End Date 7/24/96

Boring ID

SK-SB-33

Logged By: L. Bianchi

Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400

Surface Elevation:

Northing: Easting:

Depth: Depth:		At: At:	Hours	Fasting:	
	San	nple Informati	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (火)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016372	100		Dark reddish brown, fine(+) to coarse SAND, little fine Gravel, trace Silt, moist, loose	0.3
Ŧ	1016373	100		Yellowish brown, SILT and fine SAND, moist, slightly dense	0.5
‡	1016374	100		As above	0.4
‡	1016375	100		As above, wet	0.5
74				Bottom of boring at 4'	
-8					
12					
1			·		
-16					
† † †	_				
-20					
24					
1					
I				ntonite chips upon completion.	

Comments:

Borehole backfilled with bentonite chips upon completion.

Project: VPSA LEA Comm No: 68TR517	Start Date 7/24/96	Boring ID
Client: Pratt & Whitney Location: East Hartford, CT	End Date 7/24/96	SK-SB-34
Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core Groundwater Observations: Depth: NM At: Hours Depth: At: Hours	Logged By: L. E Drilling Foreman: Drill Rig: Geop Surface Elevation: Northing: Easting:	J. Klapheke robe 5400
Sample Information	Sample Description	

Elevation/ Depth	San	ple Informat	ion	Comple Description	
Elevation/ Depth				Sample Description	_}
	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016376	100		Dark reddish brown, fine(+) to coarse SAND, with Silt, trace fine Gravel, slightly moist, loose	0.9
Ŧ F	1016377	100		Yellowish brown, fine(+) to medium SAND, trace Silt,	0.5
I [1016378	100		\moist, loose / As above	0.5
ĮΓ	1016379	100		As above, wet	0.2
				Bottom of boring at 4.0'	
16					
20					
Comments:	Boreho	le backfil	led with be	ntonite chips upon completion.	

EOLOG	IC DOK	H10 D		Page 1 of 1	
LEA Comm	/PSA No: 68' att & Whit East Harti			Start Date 7/24/96 End Date 7/24/96 SK-SB-3!	
Orilling Cor Orilling Me Sampling M	ntractor: thod: G lethod: er Observat A	LEA eoprobe Macro c	ore Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
<u> </u>	Sam	ple Informat	ion	Sample Description	
levation/ epth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1016380	60		Dark reddish brown, fine to coarse SAND, trace Silt, trace	0.5
‡	1016381	60		fine Gravel, slightly moist, loose Yellowish brown, fine SAND, some Silt, moist, loose	0.2
<u>†</u> †	1016382	60		Yellowish brown, fine to medium SAND, trace Silt, moist,	1.4
+ +	1016383	60		_slightly dense	0.9
Ŧ4 ├			· ·	Yellowish brown, fine to coarse SAND, trace Silt, wet, \tag{\tag{\tag{Vose}}	_
‡ [Bottom of boring at 4.0'	J
‡				•	
+					
ŦI]			
+8					
<u>†</u>				•	
Ŧ					
1					
+12					
1 1					
Ŧ					
1					
† l					
+16					
Ŧ					
1	فد				
†					
+ _					
+20					}
‡					
<u>†</u>			:		
+					
+24					
‡					
+					
omments:	Davahal	a baakfill	ad with be	entonite chips upon completion.	

Borehole backfilled with bentonite chips upon completion. Comments:

24

Depth: At: Hours Sample Easting: Sample Information Sample Description	Location: Drilling Co Drilling M Sampling I Groundwa	ratt & Whit East Hart ontractor: ethod: G Method: ter Observa	ford, CT LEA leoprobe Macro (tions:		Tyle Ale Boring I 7/24/96 End Date 7/24/96 Logged By: L. Bianchi Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	37
Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Spherictly, Angularity, Sedimentary Structures, Density, Cohesiveness (ppm)	Depth:		At:	Hours	Easting:	
Seaple Recovery Blows Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness 0.2		San	nple Informa	ation		-
slightly moist, loose Yellowish brown, fine to medium SAND, trace Silt, moist, Slightly dense As above As above, wet Bottom of boring at 4'	Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm)
Yellowish brown, fine to medium SAND, trace Silt, moist, slightly dense As above, wet Bottom of boring at 4'	ް	1016388			Reddish brown, fine(+) to coarse SAND, little Silt,	0.2
1016392 Slightly dense 0.2 As above As above 0.5 As above As above 0.5 Bottom of boring at 4'	‡	1016389				0.3
As above, wet Bottom of boring at 4'	Ì	1016392			slightly dense	0.2
As above, wet Bottom of boring at 4'	Į.	1016393	-		As above	105
	‡4	1010333				1.5
	16					

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macro Core

Hours

Groundwater Observations:

Depth: NM Depth: At: **Start Date** 8/27/96 **End Date** 8/27/96

Boring ID SK-SB-38

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

	Samp	ole Informat			
		DIE THIOTHIA	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (火)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017409	100		4": Concrete; 3": Subbase; 5": Dark reddish brown, fine to medium SAND and SILT, little coarse Sand, trace fine Gravel, most, slightly dense; 11": Yellowish brown, fine to	0.1
1	1017410	100		medium SAND, some Silt, moist, slightly dense As above	0.3
+4	1017411	100		Dark brown, fine SAND, with Silt, some medium Sand, little coarse, very moist, slightly dense	2.6
	1017412	100		Dark red, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, trace coarse Gravel, moist, very dense	3.2
***	1017413	100		As above	33.0
‡	1017414	100		Dark brown, fine to medium SAND, some Silt, little coarse Sand, wet, slightly dense	72.0
12	1017415	100		Dark grey, fine to medium SAND, some Silt, little coarse Sand, wet, loose	31.0
† †	1017416	100		As above	7.6
16	1017417	100		Grey, medium to coarse SAND, some fine, trace Silt, trace(-) fine Gravel, wet, loose	1.0
† †	1017418	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
20				Bottom of boring at 20.0'	
-24				·	
Comments:	Borehole	e backfil	lled with be	entonite chips upon completion.	

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations: Depth: NM At: Depth:

At:

Hours

Start Date 8/26/96 **End Date** 8/26/96

Boring ID

SK-SB-39

Logged By: L. Bianchi

Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:

Northing: Easting:

epui.		AL.	110013	Easting.	
	Sar	nple Informat	ion	Sample Description	
evation/ pth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017386	100		3.5": Concrete; 2.5": Subbase; 17": Yellowish brown, fine to medium SAND, trace fine Gravel, trace(-) Silt, moist, slightly dense	0.2
‡	1017387	100		Dark brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moist, slightly dense	0.4
+4	1017388	100		6": As above; 17": Dark brown, fine to medium SAND, with coarse Sand, little fine Gravel, trace(+) Silt, trace(-) coarse Gravel, moist, very dense	14.0
Ī	1017389	100		As above	85.0
+8	1017390	100		10": As above; 13": Light grey, fine to medium SAND, trace Silt, very moist, loose	150.0
‡	1017391	100		Greyish brown, fine and medium SAND, little coarse Sand, trace Silt, wet, loose	12.0
12	1017392	100		Dark yellowish brown, medium SAND and fine SAND, little coarse Sand, trace Silt, wet, loose	1.2
+ + + +	1017393	100		Dark yellowish brown, medium SAND and fine SAND, some coarse Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose	0.2
+16	1017394	100		8": As above; 15": Grey, varved CLAY, trace Silt, wet, stiff	0.1
+	1017395	100		As above	0.1
20				Bottom of boring at 20.0'	
†					
1 24					
+					
omments	: Boreho	ole backfil	led with be	entonite chips upon completion.	

comments:

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NM At:

Hours

Start Date 8/27/96 End Date 8/27/96

Boring ID

SK-SB-40

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing:

Depth:		At:	Hours	Easting:	
	Sar	nple Informa	tion	Sample Description	J
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ľ	1017398	100		4": Concrete; 3": Subbase; 6": Dark reddish brown, fine to medium SAND, little coarse, trace Silt, trace(-) fine Gravel, moist, slightly dense; 10": Yellowish brown, As	10.0
‡	1017399	100		~above	0.3
+4	1017400	100		Dark reddish brown, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, trace coarse Gravel, moist, very dense	7.0
Ī	1017401	100		As above	8.6
+8	1017402	100		Dark brown, medium SAND and fine SAND, some Silt, little coarse Sand, trace fine Gravel, very moist, dense	80.0
‡	1017403	100		3": As above; 20": Dark grey, medium to coarse SAND, some fine, trace Silt, wet, loose	150.0
+12	1017404 1017405	100		Dark grey, fine SAND, some Silt, trace medium Sand, slightly dense, wet	70.0
† †	1017406	100		As above	7.0
+16	1017407	100		Yellowish grey, medium to coarse SAND, some fine Gravel, little fine Sand, trace Silt, wet, very loose	5.1
‡	1017408	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.2
+ 20 + + +				Bottom of boring at 20.0'	
-24					
<u> </u>					
Commer	its: Boreho	ole backfi	lled with be	entonite chips upon completion.	



Linde Gas Project: LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: **LEA** Geoprobe Macro Core

Groundwater Observations: Depth: NM At:

Hours

Start Date 8/26/96 **End Date** 8/26/96

Boring ID

SK-SB-41

L. Bianchi

Logged By: L. Bi Drilling Foreman: Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

Depth:		At:	Hours	Easting:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1017375	100		3.5": Concrete; 2.5": Subbase; 17": Brown, fine SAND and SILT, trace medium Sand, trace(-) fine Gravel, subbase, loose, moist	1.0
‡	1017376 1017377	100		Brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	0.2
+4	1017378	100		12": As above; 11": Brown, fine to medium SAND, some coarse Sand, little fine Gravel, dense, very moist	4.2
‡	1017379	100		As above	58.0
8	1017380	100		9": As above; 15": Grey, medium to coarse SAND, little fine Sand, trace Silt, very moist	300.
‡	1017381	100		4": As above; 19": Yellowish brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, slightly dense	35.0
+12	1017382	83		As above	50.0
Ŧ	1017383	83		As above	2.0
16	1017384	100		15": As above; 8": Olive grey, varved CLAY, trace Silt, wet, stiff	6.0
† †	1017385	100		As above	3.5
± 20				Bottom of boring at 20.0'	
24					
Comments	·			entonite chips upon completion.	

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: LEA Geoprobe Macro core Sampling Method:

Hours

Groundwater Observations:

Depth: NM At: Start Date 8/19/96 End Date 8/19/96

Boring ID

SK-SB-42

Logged By: L. Bianchi
Drilling Foreman: J.Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J.Sweeton

Northing:

Depth:		At:	Hours	Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
0	1017263	100		3": Concrete; 4": Subbase; 16": Brown, fine SAND, some medium Sand, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, moist, moderately loose	0.0	
†	1017264	100		As above	1.0	
+4	1017265	100		Reddish brown, medium SAND, some fine Sand, coarse Sand, little fine Gravel, wet, very dense	1.2	
+	1017266	100		As above	1.6	
8	1017267	100		6": As above; 17": Dark reddish brown, medium SAND, with coarse Sand, some fine Gravel, little fine Sand, trace Silt, wet, very dense	1.6	
‡	1017268	100		Light reddish brown, medium SAND, with coarse Sand, little fine Sand, trace Silt, wet, slightly dense	5.2	
+12 +				Auger refusal at 12.0' Bottom of boring at 12.0'		
-16						
20						
24						
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	l	

Printed On: 6/16/1998

Boring

∨ 0:

SK-SB-43A

Project: Linde Gas Start Date **Boring ID** 68TR670 LEA Comm No: 8/28/96 Client: Pratt & Whitney **End Date** SK-SB-43B Location: East Hartford, CT 8/28/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: Drilling Method: J. Sweeton Geoprobe Sampling Method: Mac Groundwater Observations: Macro Core Depth: NM Hours Northing:

Depth:		At:	Hours	Easting:	
	Sample Information Sample Description				
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
		100		4": Concrete; 3": Subbase, 8": Dark red, fine SAND and SILT, little medium Sand, moist, loose; 8": Dark yellowish brown, fine to medium SAND, some coarse Sand, little Silt,	N/A
Ī		100		As above	N/A
+4		50		Dark reddish brown, fine to medium SAND, with Silt, some coarse Sand, little fine Gravel, trace coarse Gravel, moist, very dense	N/A
Ī	1017441	50		As above	17.2
+8				Bottom of boring at 8.0' refusal	
‡					
+12					
Ī			9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9		
‡					
16			į		
† †					
20					
 					
24					
<u></u>					
Comments	: Boreho	ole backfil	led with be	ntonite chips upon completion.	



Groundwater Observations:

Depth: NM

Boring ID

SK-SB-44

Start Date Project: Linde Gas 8/21/96 End Date LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT 8/21/96 **Drilling Contractor: LEA** Logged By: Drilling Method: Sampling Method: Geoprobe

Hours

Macro core

At:

J. Klapheke Drilling Foreman: J.Swe Drill Rig: Geoprobe 5400 Surface Elevation: J.Sweeton

Northing:

Depth:		At:	Hours	Easting:	
	Sar	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1017303	75		3": Asphalt, 9": Subbase, augered - no recovery; 6": Dark reddish brown, fine to coarse SAND, with fine to medium Gravel, moist to wet, loose to moderately dense, subrounded Gravel	1.2
+	1017304	75		As Above	1.0
+4	1017305	96	·	6": Olive grey, fine SAND, trace Silt, wet, dense; 17": Olive grey to reddish brown, fine(+) to coarse SAND, trace Silt, slightly dense, wet	1.0
‡_	1017306	96		Olive grey to reddish brown, fine(+) to coarse SAND, trace Silt, slightly dense, wet, slight coarsening at bottom 6", wood fragments	1.3
+8 +	1017307	25		5": Reddish brown, fine to coarse(+) SAND, trace Silt, wet, loose; 1": Light greyish brown, fine SAND, trace Silt, wet, loose	1.0
	1017308	25		As Above	0.9
+12	1017309	63		Olive grey, CLAY, trace fine Sand, trace Silt, wet, dense	0.9
·	1017310	63		As Above	0.9
16				Bottom of boring at 16'	
20					
24					
Comments	: Boreho	ole backfi	illed with be	entonite chips upon completion.	<u> </u>

Groundwater Observations:

Geoprobe Macro core

Project: Linde Gas 68TR670 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** Drilling Method: Sampling Method:

Start Date 8/21/96 **End Date** 8/21/96

Boring ID SK-SB-45

Logged By: J. Klapheke Drilling Foreman: J.Swe Drill Rig: Geoprobe 5400 Surface Elevation: J.Sweeton

Froundwa Depth: N Depth:		uois: At: At:	Hours Hours	Surface Elevation: Northing: Easting:	
	San	nple Informat	tion	Sample Description	
evation/ epth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017294	78		3" pavement and 9" sub-base-augered; 7": Dark reddish brown, fine to coarse SAND, little fine Gravel, trace Silt, slightly moist, loose	0.1
Ī	1017295	78		As Above	0.4
4	1017296	62		As above, moist to wet, occasional light grey brown, fine to coarse SAND lense	1.0
 	1017297	63		As Above	0.5
+ 8 +	1017298 1017300	63		As above, slight coarsening downwards, wet	0.9
‡	1017299	75		As Above	1.8
12	1017301	88		12": As above; 9": Olive grey, CLAY, trace Silt, trace fine Sand, dense, wet	0.2
‡	1017302	88		As Above	0.2
+16		1		<u> </u>	<u> </u>
20				Bottom of boring at 16'	
† † † † †					
+24					
<u></u>	<u> </u>		11 . 4 . 4 . 4		
omments	: Boreho	le backfil	lled with be	entonite chips upon completion.	

Project: Linde Gas 68TR670 LEA Comm No: Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: Drilling Method:

Geoprobe MC to 4'; LB from 4' Sampling Method:

Groundwater Observations:

Depth: NM

Hours At:

Start Date 8/20/96 **End Date** 8/20/96

Boring ID

SK-SB-46

Logged By: L. Bianchi
Drilling Foreman: J.Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J.Sweeton

Northing:

Depth:	1	At:	Hours	Easting:		
	San	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample Na.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
	1017274	100		1": Asphalt; 22": Red, fine to medium SAND, some coarse Sand, little fine Gravel, trace Silt, moist, dense	0.0	
† †	1017275	100		21": As above; 2": Olive grey, fine SAND, little Silt, moist, slightly dense	0.1	
+4	1017276	100		Olive brown, fine SAND, with medium Sand, little coarse Sand, trace Silt, slightly dense, wet	0.1	
‡ †	1017277	100	<u> </u>	As above	0.0	
‡8 ‡	1017278	100		As above	0.1	
‡	1017281	100		Yellowish brown, fine to medium SAND, some coarse Sand, little Silt, wet, loose	0.:	
+12	1017282	100		12": As above; 12": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
<u> </u>	1017283	100		As above	0.0	
16 + + +				Bottom of boring at 15.0'		
20						
-24						
Comments	: Boreho	le backfil	led with be	entonite chips upon completion.	<u> </u>	

Location: Drilling Co Drilling Me Sampling N Groundwat Depth: N	ntractor: ethod: G Method: ter Observat	LEA eoprobe Macro C	Hours	8/20/96 Logged By: L. Bianchi Drilling Foreman: J.Sweetor Drill Rig: Geoprobe 5400 Surface Elevation: Northing:)
Depth:	A	t:	Hours	Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1017284	25		2": Asphalt; 4": Red, fine to medium SAND, some coarse Sand, little fine Gravel, trace Silt, moist, dense	0.0
† † †	1017285	25		As above	0.0
+4	1017286	50		Olive grey, fine SAND, with medium Sand, little coarse Sand, trace Silt, slightly dense, wet	0.0
† † †	1017287	50		As above	0.1
+8 + +	1017288	100		As above	0.1
†	1017289	100		As above	0.0
12	1017290	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
‡	1017291	100		As Above	0.0
16				Bottom of boring at 15'	
+					
+24 + + +					

1017343

1017344

12

20

50

100

Page 1 of 1 Start Date Project: Linde Gas **Boring ID** 8/22/96 LEA Comm No: 68TR670 **End Date** Client: Pratt & Whitney **SK-SB-48** 8/22/96 East Hartford, CT Location: L. Bianchi Logged By: **Drilling Contractor:** LEA J.Sweeton Drilling Foreman: Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: NM Hours Easting: Depth: At: Sample Information Sample Description Elevation/ Depth color, Primary Grain Size, Secondary Grain Sizes, Blows Sample No. ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0.0 1017338 75 Brown, SILT and fine SAND, slightly moist, loose, root fragments 1017339 75 0.0 Brown, fine SAND, some SILT, little medium Sand, trace(+) coarse Sand, trace(-) fine Gravel, moist, loose 1017340 75 0.1 As above, very moist 1017341 75 0.4 Brown, fine to medium SAND, trace Silt, wet, loose 0.3 1017342 50 Brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose

1017345 100 As above Bottom of boring at 15.0' 16

As above

Olive grey, varved CLAY, trace Silt

Comments: Borehole backfilled with bentonite chips upon completion. 0.0

0.0

0.0

Project: Linde Gas
LEA Comm No: 68TR670
Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LEA
Drilling Method: Geoprobe

Start Date
8/22/96
End Date
8/22/96
SK-SB-49
Logged By: L. Bianchi
Drilling Foreman: J.Sweeton

Drilling Contractor: LEA

Drilling Method: Geoprobe
Sampling Method: Macro Core
Groundwater Observations:

Logged By: L. Bianchi
Drilling Foreman: J.Swee
Drill Rig: Geoprobe 5400
Surface Elevation:

Depth: NM At: Hours Northing:

Depth:	••••	At:	Hours	Easting:	
	Sa	mple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
·	1017321	75		Brown, SILT and fine SAND, slightly moist, loose, root fragments	0.0
† †	1017322	75		Brown, fine SAND, some Silt, little medium Sand, trace(+) coarse Sand, trace(-) fine Gravel, moist, loose	0.0
+4	1017323 1017324	75	-	As above, very moist	0.0
 	1017325	75		Brown, fine to medium SAND, trace Silt, wet, loose	0.0
+8 +	1017326	75		Brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	0.2
†	1017327	75		Dark yellowish brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	0.0
<u></u>	1017328	100		12": Olive brown, fine to medium SAND, some coarse Sand, trace Silt, wet, loose; 11": Olive grey, varved CLAY, little Silt, wet, very stiff	0.0
‡	1017329	100		As above	0.0
16				Bottom of boring at 15.0'	
÷ 20					
† † † 24					-
_ ‡					
ommen	ts: Boreho	ole backfill	ed with be	ntonite chips upon completion.	

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Project: Linde Gas
LEA Comm No: 68TR670
Client: Pratt & Whitney
Location: East Hartford, CT

Drilling Contractor: LEA
Drilling Method: Geoprobe
Sampling Method: Macro Core
Groundwater Observations:
Depth: NM At: Hours
Depth: At: Hours

Sample Information

Sample Description

Elevation/

Elevation/

Elevation/

Start Date
8/22/96

Boring ID
SK-SB-50

SK-SB-50

SK-SB-50

SK-SB-50

SK-SB-50

SK-SB-50

Signate By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

Sample Description

Color, Primary Grain Size, Secondary Grain Sizes,

Depth:			lt:	Hours	Easting:	
		San	ple Informat	tion	Sample Description	
Elevation/ Depth		Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
T °		1017330	75		Brown, fine SAND and SILT, trace medium Sand, slightly moist, loose, root fragments	0.0
‡		1017331	75		As above, moist	0.0
+4		1017332	75		Brown, fine to medium SAND, with Silt, trace coarse Sand, moist, loose	0.4
 		1017333	75		As above, wet	7.5
+8 +	-	1017334	75		Brown, medium SAND, with fine Sand, some coarse Sand, little fine Gravel, trace Silt, wet, loose	0.2
†		1017335	75		Yellowish brown, medium to coarse Sand, with fine Sand, little fine Gravel, trace Silt, wet, very loose	0.0
12		1017336	100		Olive grey, varved CLAY, trace Silt, wet, very stiff	0.0
Ŧ	\vdash	1017337	100		As above	0.0
16					Bottom of boring at 15.0'	
20						
24						
Commen	ıte•	Boreho	le hackfil	led with hen	tonite chips upon completion.	

	FIC BOR	ING L	OG	Page 1 of 1	
EĂ Com	Linde Gas n No: 68 ratt & Whit East Hart			Start Date Boring ID 8/21/96 End Date SK-SB-5	
rilling Mampling I	Method: ter Observat M	LEA ieoprobe Macro C tions: At:	Core Hours Hours	Logged By: J. Klapheke Drilling Foreman: J.Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
·F	Sam	ple Informat		Sample Description	Γ
evation/ epth	Sample No.	Recovery (X)	Blows /6*	olor, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017311	88		8": Topsoil, dark reddish brown, rooted; 13": Dark reddish brown, fine(+) to medium SAND, little Silt, slightly moist to moist, slightly dense, paper fragments	0.1
†	1017312	88		As Above	0.3
4	1017313	67		12": As above; moist to wet; 4": Light greyish brown, fine to coarse(+) SAND, little very fine Gravel, wet, loose	0.5
† †	1017314	67		As Above	0.6
+8	1017315	63		10": As above; 5": Light grey brown, fine SAND, trace Silt, wet, slightly dense	5.5
‡	1017316	63		5": As Above; 10": Reddish brown, fine to coarse(+) SAND, wet, loose	2.2
+12 +	1017317	88		As above	0.8
† †	1017318	88		3": As Above; 18": Olive grey, CLAY, varved, wet, dense, dark reddish brown, very fine Sand and Silt on varves	2.9
+16 + + + + +				Bottom of boring at 16'	
20					
‡					
+24					
omments	: Boreho	le backfil	led with be	entonite chips upon completion.	I

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney East Hartford, CT Location:

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NM

Start Date 8/28/96 End Date 8/28/96

Boring ID **SK-SB-52**

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400 J. Sweeton

Surface Elevation:

Northing:

Depth:		At:	Hours	Easting:	
	San	npie Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
0	1017419 1017420	100		Light brown, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	0.0 0.2
+	1017421	100		As above	0.2
14	1017424	100		Dark brown, fine SAND and SILT, trace medium Sand, very moist, slightly dense	0.9
-8	1017425	100		Greyish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose	2.5
	1017426	100		Olive brown, medium SAND, with fine Sand, some coarse Sand, little Silt, wet, loose	3.1
† †	1017427	100		Yellowish grey, fine to medium SAND, some coarse Sand, little Silt, wet, loose	7.2
12	1017428	20		Yellowish grey, medium SAND and coarse SAND, some fine Sand, little fine Gravel, trace Silt, wet, very loose	0.3
‡	1017429	20		Olive grey, varved CLAY, trace Silt, wet, slightly stiff	0.1
16				Bottom of boring at 15.0'	
20					
24					
Comments	: Boreho	ole backfi	lled with be	ntonite chips upon completion.	<u></u>

Start Date **Project:** Linde Gas **Boring ID** 8/29/96 68TR670 **LEA Comm No:** Client: Pratt & Whitney **End Date** SK-SB-53 8/29/96 Location: East Hartford, CT **Drilling Contractor:** Logged By: L. Bianchi LEA Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 **Macro Core** Sampling Method: Surface Elevation: **Groundwater Observations:** Northing: Hours Depth: NM At: Easting: At: Hours Depth: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 100 1017444 10": Dark brown, fine SAND and SILT, little coarse Gravel, trace medium Sand, loose, moist; 13": Reddish brown, fine to medium SAND and coarse SAND, some fine Gravel, little coarse Gravel, trace fine Cobbles, dense, moist 1017445 100 15": As above; 7": Black, fine SAND, some medium Sand, little Silt, slightly dense, moist, hydrocarbon odor; 1": Reddish brown, fine to medium SAND and coarse SAND, 1017446 100 some fine Gravel, little coarse Gravel, trace fine Cobbles. 17": As above; 6": Grey, fine SAND, little Silt, very moist, 1017447 1017448 100 Olive grey, fine to medium SAND, little coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose 1017449 50 Dark grey, fine SAND, trace Silt, wet, loose 1017450 50 12": As above; 11": Grey, fine to medium SAND, little Silt, trace coarse Sand, trace(-) fine Sand, loose, wet 12 1017451 100 As above 1017452 100 6": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of boring at 15.0' 16 20

Comments:

24

Borehole backfilled with bentonite chips upon completion.



GEOLOGIC BORING LOG Page 1 of 1 Start Date Project: Linde Gas Boring ID 8/23/96 LEA Comm No: 68TR670 **End Date** Client: Pratt & Whitney SK-SB-54 Location: East Hartford, CT 8/23/96 Logged By: L. Bianchi **Drilling Contractor:** LEA Drilling Foreman: Drilling Method: Geoprobe J.Sweeton Sampling Method: Drill Rig: Geoprobe 5400 Surface Elevation: Macro Core **Groundwater Observations:** Depth: NM Northing: Hours At: Depth: At: Hours Easting: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. ecovery (火) Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1017348 75 0.0 Brown, fine SAND and SILT, trace(-) medium Sand, moist, loose, root fragments 1017349 75 Brown, fine SAND, some Silt, trace medium Sand, moist, 0.2 1017350 75 0.5 Reddish brown, fine SAND, some Silt, little medium Sand, trace coarse Sand, moist, loose 1017351 1017352 75 0.2 Grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose 1017353 100 0.3 As above 1017354 100 4.5 Dark yellowish brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose 12 1017355 100 0.2 Dark grey, medium to coarse SAND, with fine Sand, some Silt, loose, wet 0.0 1017356 100 As above Bottom of boring at 15.0' (varved CLAY at 15.0') 16 20

Comments:

Borehole backfilled with bentonite chips upon completion.

Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core **Groundwater Observations:** Depth: Hours

Start Date **Boring ID** 8/23/96 End Date **SK-SB-55** 8/23/96

Logged By: L. Bianchi Drilling Foreman: J.Swe Drill Rig: Geoprobe 5400 Surface Elevation: J.Sweeton

Northing:

Depth: Depth:		ac: At:	Hours	Northing: Easting:	
	San	ple Informati	on	Sample Description	
Elevation/ Depth	Sample No.	Recovery (光)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
10	1017365	.100		Reddish brown, fine SAND, with Silt, slightly moist, loose, root fragments	0.0
†	1017366	100		As above	0.0
+4	1017367			11": As above; 12": Grey, fine SAND, little medium Sand, trace Silt, very moist, loose	0.0
† †	1017368			12": As above; 11": Light grey, fine SAND, little Silt, trace medium Sand, wet, loose	0.1
+8	1017369			As above	0.2
† †	1017370			Dark yellowish brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	0.3
12	1017371			Dark grey, medium to coarse SAND, some fine Sand, little Silt, wet, loose	0.0
· †	1017372			As above	0.0
16				Bottom of boring at 15.0'; varved CLAY at ≈ 15.0' to 15.5'	
20					
÷ 24					
Comments	Boreho	le backfill	ed with be	ntonite chips upon completion.	

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Project: Linde Gas LEA Comm No: 68TR670 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: LEADrilling Method: Geopro Sampling Method: Macr Groundwater Observations: Depth: NM At: LEA Geoprobe Macro Core Hours

Start Date 8/23/96 End Date 8/23/96

Boring ID

SK-SB-56

Logged By: L. Bianchi
Drilling Foreman: J.SweDrill Rig: Geoprobe 5400
Surface Elevation: J.Sweeton

Depth:		At:	Hours	Easting:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1017357	100		Light reddish brown, fine SAND and SILT, slightly moist, loose, root fragments	0.8
†	1017358	100		Reddish brown, fine SAND, some Silt, trace(-) coarse Gravel at ≈ 3.75', loose from 2-3.75', dense at 3.75-4.00', moist	0.7
+4	1017359	100		10": As above; 13": Bluish grey, fine SAND, little medium Sand, trace Silt, very moist, loose	0.0
† †	1017360	100		12": As above; 11": Light greyish brown, fine SAND and medium SAND, some Silt, little coarse Sand, wet, loose	0.0
. 8	1017361			As above	0.1
† †	1017362			Dark yellowish brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	0.2
+12	1017363			Dark grey, medium to coarse SAND, some fine Sand, little Silt, wet, loose	0.0
‡	1017364			As above	0.0
16				Bottom of boring at 15.0'; varved CLAY at ≈ 15.0' to 15.5'	
Commen	ts: Boreho	le backfil	led with be	entonite chips upon completion.	



Project: Linde Gas Start Date **Boring ID** LEA Comm No: 68TR670 8/28/96 Client: Pratt & Whitney **End Date SK-SB-57** Location: East Hartford, CT 8/28/96 Logged By: **Drilling Contractor:** L. Bianchi J. Sweeton Drilling Method: Geoprobe Drilling Foreman: Drill Rig: Sampling Method: Macro Core Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Hours Depth: NM At: Northing: Easting: Hours Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Blows Sample No. Recovery (火) Depth Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1017430 100 0.0 Light brown, fine SAND, some Silt, moist, loose, root fragments 1017434 100 0.0 Brown, fine SAND, with Silt, trace medium Sand, moist, 100 1017435 6": As above; 17": Light bluish grey, SILT, with fine SAND, 1.8 very moist, slightly stiff 1017436 100 0.6 Light reddish grey, medium to coarse SAND, some fine Sand, little fine Gravel, trace Silt, wet, loose 8 1017437 25 Yellowish brown, fine SAND, with medium Sand, some Silt, 0.8 little coarse Sand, wet, loose 25 0.0 1017438 As above 12 1017439 100 0.1 As above 1017440 100 0.0 6": As above; 6": Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of boring at 15.0' 16 20 24 Boring N Comments: Borehole backfilled with bentonite chips upon completion.

Page 1 of 1
Start Date Boring ID
9/4/96
End Date SK-SB-58
9/4/96 3K-3B-38
Logged By: L. Bianchi
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:
Sample Description

			45	Course Description	
Elevation/ Depth	Sample No.	Recovery	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017805	100		Dark olive grey, fine SAND and SILT, trace medium Sand, moist, loose, rip rap	0.6
† † †	1017806	100		Light yellowish brown, fine SAND, little Silt, trace medium Sand, moist, very loose	0.0
+4	1017807	100		As above	7.4
+	1017808	100		Dark olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel	0.1
-8	1017809 1017810	100		As above, wet	1.5 1.3
† †	1017811	100	·····	Dark yellowish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose	0.0
+12	1017812	100		Olive grey, varved CLAY, little Silt, wet, slightly stiff	0.0
‡	1017813	100		As above	0.0
+16				Bottom of boring at 15.0'	
20					
-24					
Comments	: Boreho	ole backf	illed with	bentonite chips upon completion.	<u> </u>

LEA Com	ratt & Whit East Hart	TR671 ney ford, CT LEA		Start Date Boring II	
Drilling Me Sampling I	ethod: G Method: ter Observa M A	ieoprobe Macro c	ore Hours Hours	Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blows	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017760	100		Dark brown, fine SAND, some Silt, little medium Sand, moist, loose	3.2
‡	1017761	100		Olive brown, fine SAND, some Silt, loose, moist	122.0
+ 4	1017762	100		Light olive brown, fine to medium SAND, trace Silt, trace(-) coarse Sand, loose, moist	125.0
<u> </u>	1017763	100		As above, wet	0.2
- 8	1017764	100		As above	0.6
	1017765	100		6": As above; 5": Dark yellowish red, fine to medium SAND, trace Silt, wet, loose; 12": Light olive brown, fine to medium SAND, trace Silt, trace(-) coarse Sand, loose, wet	0.1
+12	1017766	100		Grey, varved CLAY, some Silt, wet, slightly stiff	0.0
Ī	1017767	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
24					
Comments	: Boreho	le backfill	led with be	entonite chips upon completion.	<u></u>

			· · · · · · · · · · · · · · · · · · ·	Tage 1 to 1	
	Tie Down			Start Date Rowing II	D
LEA Com	n No: 687 ratt & Whiti	TR671		Fred Data	
Location:	East Hartf	ord, CT		9/3/96 SK-SB-6	0
Drilling Co Drilling Mo Sampling M	ontractor: ethod: Go Method: ter Observat	LEA eoprobe Macro c	Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
Depth:		it:	Hours	Easting:	
	Sam	ple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017770	74		Dark yellowish red, medium SAND, some fine, little coarse, trace fine Gravel, trace(-) Silt, moist, dense	2.0
† †	1017771	74		10": As above; 7": Olive brown, fine SAND, with Silt, trace(-) medium Sand, loose, moist	0.0
+4	1017772 1017773	100		Yellowish brown, fine SAND, some medium Sand, little Silt, moist, loose	1.0
†	1017774	100		Olive brown, medium SAND, with fine Sand, some coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose	0.0
+8	1017775	100		As above	13.0
† † †	1017776	100		20": Dark olive brown, fine to medium SAND, some coarse, little Silt, wet, loose; 3": Olive grey, varved CLAY, trace Silt, wet, stiff	14.0
12	1017777	100		Olive grey, varved CLAY, trace Silt, wet, stiff	1.0
†	1017778	100		As above	0.0
+				Bottom of boring at 15.0'	
T 16				·	
20					
+24 1					
Comments	: Borehol	le backfil	led with be	entonite chips upon completion.	1

				Page 1 of 1	
Project: LEA Con	Tie Down	TD671		Start Date Boring	D
	ım No: 68 Pratt & Whit	STR671 tnev		Find Date	
Location:	East Hart			9/4/96 SK-SB-	61
Drilling M Sampling Groundwa Depth: 1	Method: ater Observa	LEA Seoprobe Macro c itions: At:	ore Hours		P n
Depth:		At:	Hour	Easting:	
	Sar	nple Informat	tion	Sample Description	
Slevation/ Depth	Sample No.	Recovery (な)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017822	100		Brown, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	3.6
‡ ‡	1017823	100		Light pinkish brown, fine SAND, some Silt, trace medium Sand, moist, loose	0.1
+4	1017824	100	<u>.</u>	Yellowish brown, fine SAND, some Silt, trace medium Sand, moist, loose	1.3
‡	1017825	100		Dark olive brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, moist, loose	40.0
+8	1017826	22		As above, wet	4.2
† †	1017827	22		As above	3.9
12	1017828	100		Olive grey, varved CLAY, trace(+) Silt, wet, stiff	0.1
Ī	1017829	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
1					
24			1		
Comment	s: Boreho	DIE DACKTI	iea with b	pentonite chips upon completion.	

Project: Tie Down LEA Comm No: 68TR671 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Macro core

Groundwater Observations:

Depth: NM Depth:

Hours At: At: Hours

Start Date 9/3/96 **End Date** 9/3/96

Boring ID

SK-SB-62

Logged By: L. Bianchi
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Easting:

Deptn:		At:	Hours	Easting:	
	San	nple Inform	ation	Sample Description	}
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
	1017779	43		5": Dark red, medium SAND, with fine Sand, some coarse Sand, little Silt, trace fine Gravel, moist, dense; 5": Yellowish grey, fine SAND and SILT, trace(-) medium Sand, moist, slightly loose"	0.0
‡	1017780	43		10": Light greyish brown, fine SAND, little Silt, moist, loose*	2.6
+4	1017781	100		As above	0.4
Ī	1017782	100		Dark olive grey, fine to medium SAND, some coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet, loose	12.0
8	1017783	100		Dark yellowish brown, fine to medium SAND, some coarse Sand, trace(+) fine Gravel, trace(-) Silt, wet, loose	7.1
<u> </u>	1017784	100		As above; 3": Olive grey, varved CLAY, trace Silt, wet, stiff	0.1
12	1017785	100		As above	0.0
‡ †	1017786	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
24					
Comments	Boreho	ole backfered ≈ 1	illed with be 5" through	ntonite chips upon completion. rock/gravel layer	<u> </u>

Project: Tie Down Start Date **Boring ID** LEA Comm No: 68TR671 9/3/96 Client: Pratt & Whitney **End Date SK-SB-63** Location: East Hartford, CT 9/3/96 Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Geoprobe 5-Surface Elevation: **Drilling Contractor:** LEA reman: J. Sweeton Geoprobe 5400 Geoprobe Drilling Method: Sampling Method: Macr Groundwater Observations: Macro core Depth: NM Northing: At: Hours Hours Easting: Depth: At:

рерш:		AL:	110015	# Easting:	
	Sar	mple Informa	tion	Sample Description]
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017787	74		7": Dark red, medium SAND, with fine Sand, some coarse Sand, little Silt, trace fine Gravel, moist, dense; 10": Light pinkish grey, fine to medium SAND, trace coarse Sand, trace(-) Silt, moist, loose	1.4
‡	1017788	74		As above	1.4
+4	1017789	100		Light olive grey, fine to medium SAND, little coarse Sand, trace Silt, very moist, loose	0.4
†	1017790	100		Dark reddish yellow, fine to medium SAND, some Silt, little coarse Sand, wet, loose	0.1
8	1017791	100		Light pinkish grey, fine SAND and SILT, wet, loose	1.1
†	1017792	100		Light pinkish grey, fine SAND and SILT, some medium Sand, trace coarse Sand, wet, loose; 2" Olive grey, varved CLAY, trace Silt, wet, stiff	125.0
+12	1017793	100		As above	1.0
Ŧ	1017794	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
T † +					
24					
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	<u></u>



Project: Tie Down LEA Comm No: 68TR671 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro core **Groundwater Observations:**

Start Date 9/3/96 End Date 9/3/96

Boring ID

SK-SB-64

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth: Depth:	NM		At: At:	Hours Hours	Northing: Easting:	
	\top	Sar	nple Informa	ition	Sample Description	
Elevation/ Depth		Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0		1017795	43		Dark brown, fine SAND, with medium Sand, some Silt, trace coarse Sand, moist, slightly dense	0.3
† † †		1017796	43		Light yellowish brown, fine SAND, with Silt, trace medium Sand, moist, loose	0.0
+4		1017797	100		Light olive grey, fine SAND, with Silt, trace medium Sand, moist, loose	3.8
† †		1017798	100		Olive brown, fine to medium SAND, some Silt, trace(-) coarse Sand, wet, loose	12.0
+8		1017799	100		Olive brown, fine to medium SAND, with coarse Sand, little Silt, trace fine Gravel, wet, loose	0.3
‡ ‡		1017800	100		20": Dark yellowish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose; 3": Olive grey, varved CLAY, trace Silt, stiff, wet	0.1
+12					No recovery	
ŧ					No recovery	
16					Bottom of boring at 15.0'	
-20						
+ 24						
İ						[

			·	rage roll	
Project:	Tie Down			Start Date Boring ID)
LEA Com	m No: 68 Pratt & Whi	STR671		Pad Data	
Location:		tford. CT		9/5/96 SK-SB-6!	5
Drilling M Sampling Groundwa	Method: ater Observa iM	LEA Geoprobe Macro cations: At: At:	ore Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
-	,	mple Informat		Sample Description	
Elevation/ Depth	Sample No.	Recovery (次)	Blaws /6*	olor, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017850	100		Dark brown, fine SAND and SILT, trace medium Sand, slightly moist, loose, root fragments	0.0
†	1017851	100		Light pinkish grey, fine SAND, some Silt, trace medium Sand, moist, loose	0.0
4	1017858	100		Grey, fine SAND, some Silt, trace medium Sand, moist, loose	0.8
† †	1017859	100		6": As above; 17": Olive brown, fine to medium SAND, little coarse Sand, trace Silt, wet, loose	40.0
+8 +	1017860	100		As above	52.0
-	1017861	100		17": Dark yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, wet, very loose; 6": Olive grey, varved CLAY, trace Silt, wet, stiff	0.0
†12 †	1017862	100		As above	0.0
Ī	1017863	100		As above	0.0
16				Bottom of boring at 15.0'	
20					
24					
Comment	s: Boreho	ole backfil	lled with be	entonite chips upon completion.	

	JIC DON			Page 1 of 1	
	Tie Down	TD674		Start Date Boring ID)
EA Com	m No: 68 Tratt & Whit	TR671		Fred Data	
ocation:				9/5/96 SK-SB-60	3
rilling C	ontractor:	LEA		Logged By: L. Bianchi	
rilling M ampling	lethod: G Method:	eoprobe Macro	2018	Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400	
roundwa	iter Observa	tions:	2019	Surface Elevation:	
epth: N	IM A	At:	Hours	Northing:	
Depth:		At:	Hours	Easting:	
	San	nple Informa	ition	Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
levation/ epth	Sample No.	Recovery (な)	Blaws /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1017842	100		Brown to light brown, fine SAND and SILT, trace medium Sand, slightly moist, loose, root fragments	1.7
†	1017843	100		As above	0.0
+4	1017844	100		Light greyish brown, fine to medium SAND, little coarse	2.7
‡	1011014			Sand, trace Silt, moist, loose	2.,
‡	1017845	100		As above, wet	16.0
	1017846	100		Dark yellowish brown, fine to medium SAND, little Silt,	11.0
 				trace coarse Sand, wet, very loose	
Ī	1017847	100		15": As above; 8": Olive grey, varved CLAY, trace Silt, wet, stiff	0.1
+12	1017848	100		As above	0.0
Ī	1017049	100		As above	0.0
16				Bottom of boring at 15.0'	
+					
Ī					
20					
†					
Ī					
124					
‡					
Comment	s: Boreho	le backf	illed with be	entonite chips upon completion.	
<u></u> -					
	_				

Project: Tie Down Start Date Boring ID LEA Comm No: 9/5/96 68TR671 Client: Pratt & Whitney **End Date SK-SB-67** Location: East Hartford, CT 9/5/96 **Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Drilling Method: Sampling Method: J. Sweeton Geoprobe Macro core

Groundwater Observations: Depth: NM Depth: Hours

Depth:	At: Hours					
	San	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
°	1017833	78		Light brown, fine SAND and SILT, trace medium Sand, slightly moist, very loose, root fragments	0.0	
‡	1017834	78		As above	0.0	
+4	1017835 1017836	100		Light olive brown, fine SAND, some Silt, little medium Sand, trace(+) coarse Sand, trace(-) fine Gravel, moist, loose	0.1	
†	1017837	100		As above, wet at ≈ 7.0'	11.0	
8	1017838	100		Grey, fine to medium SAND, little Silt, trace coarse Sand, wet, very loose	1.1	
‡	1017839	100		Dark yellowish brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	1.0	
+12 +	1017840	100		Olive grey, varved CLAY, trace Silt, wet, stiff	0.0	
ł	1017841	100		As above	0.0	
16				Bottom of boring at 15.0'		
24						
1	1					

Tie Down Project: LEA Comm No: 68TR671 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations: Depth: NM

Hours

Start Date 9/4/96 **End Date** 9/4/96

Boring ID

SK-SB-68

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Depth:		At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (४)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017814	100		Dark olive grey, fine SAND and SILT, trace medium Sand, moist, loose	0.0
†	1017815	100		Light brown, fine SAND, little Silt, trace medium Sand, moist, very loose	0.0
†4	1017816	100		As above	1.7
† + +	1017817	100		Dark olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel	0.2
+8	1017818	100		As above, wet	0.4
† † 1	1017819	100		Dark yellowish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose	0.3
+12 +	1017820	100		Olive grey, varved CLAY, little Silt, wet, slightly stiff	0.0
-	1017821	100		As above	0.0
16				Bottom of boring at 15.0'	
Comments	: Boreho	ole backfi	lled with be	entonite chips upon completion.	

Project: Tie Down LEA Comm No: 68TR671 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro core Groundwater Observations: Depth: NM At: Hours Depth: At: Hours

Start Date 9/6/96 End Date 9/6/96

Boring ID SK-SB-69

Logged By: L. Bianchi
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Easting:

Sam. 17883 17884 17885	Recovery 100	ion Blows /6*	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Light brown, fine SAND and SILT, trace medium sand, moist, loose, root fragments	(ppm)
17883 17884	100	Blows /6*	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Light brown, fine SAND and SILT, trace medium sand,	
7884				16.0
7884 17885	100			
	1 1		As above	20.0
17886	100		6": Brown, CLAY, little Silt, moist, very dense; 17": Brown, fine SAND, some Silt, trace medium Sand, moist, loose	1000
17887	100		Olive brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, very moist, loose	110.0
17888	50		Olive brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose	79.0
17889	50		As above	29.0
7890	100		Olive grey, varved CLAY, trace Silt, wet, stiff	2.1
17891	100		As above	1.3
			Bottom of boring at 15.0'	
				i i
				rehole backfilled with bentonite chips upon completion.

VPSA Project: LEA Comm No: 68TR678 Client: Pratt & Whitney East Hartford, CT Location: **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations: Depth: NM At:

Hours At: Hours

Start Date 9/6/96 **End Date** 9/6/96

Boring ID

SK-SB-70

Logged By: L. Biand Drilling Foreman: Drill Rig: GP 5400 Surface Elevation: L. Bianchi J. Sweeton

Northing: Easting:

Depth: NN Depth:		At: At:	Hours	Northing: Easting:	
	San	nple Informat	nation Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1017915	100		Dark brown, fine SAND and SILT, trace medium Sand, moist, loose, root fragments	0.3
	1017916	100		10": As above; 13": Olive grey, fine SAND and SILT, trace medium Sand, moist, dense	0.1
+4	1017917	100		17": Light brown, fine SAND, some medium Sand, little Silt, moist, slightly dense; 6": Black, fine to medium SAND, little Silt, moist, dense, organics	7.0
‡	1017918 1017919	100		12": Olive grey, fine SAND, some Silt, trace medium Sand, moist, dense; 13": Olive brown fine to medium SAND, some Silt, trace coarse Sand, very moist, loose	0.8
†8 †	1017920	100		Yellowish brown, fine to medium SAND, little coarse Sand, trace Silt, very moist, loose	1.2
‡	1017921	100		As above; wet	0.3
12	1017922	100		As above	0.2
‡	1017923	100		As above	0.0
16				Bottom of boring at 15.0'*	
-20					
24					
Comments:	Boreho	le backfil	led with be	entonite chips upon completion trace Silt, wet, stiff at 15.0'	



Project: VPSA LEA Comm No: 68TR678 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA

Drilling Method: Geoprobe Sampling Method: Macr Groundwater Observations: Macro core

Depth: NM

At: At:

Start Date 9/10/96 **End Date** 9/10/96

Boring ID

SK-SB-71 Logged By: L. Bianchi

Drilling Foreman:
Drill Rig: GP 5400
Surface Elevation:
Northing: J. Klapheke

Easting:

Deptn: N Depth:		kt: kt:	Hours	Northing: Easting:			
	San	ple Informat	lon	Sample Description			
Elevation/ Depth	Sample No.	Recovery (४)	Blows -/6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)		
T°	1017926	100		Dark brown, fine SAND, with Silt, trace medium Sand, moist, loose, root fragments	1.0		
‡	1017927	100		18": As above; 5": Black, fine SAND, some Silt, moist, dense, strong organic odor	58.0		
+4	1017928	100		Grey/olive grey fine SAND, little coarse Sand, trace(+) fine Gravel, trace(-) Silt, wet at ≈ 7.0', loose	24.0		
‡	1017929 1017930	100		Brown, fine to medium SAND, little coarse Sand, trace(+) fine Gravel, trace(-) Silt, wet at ≈ 7.0', loose	0.2		
+8	1017931	50		As above	0.3		
Ī Į	1017932	50		As above	0.1		
12	1017933	100		As above	3.4		
‡	1017934	100		10": As above; 2": Olive grey, varved CLAY, trace Silt, wet, dense	0.1		
16				Bottom of boring 15.0'			
20							
-24							
Comments	Boreho	le backfil	led with her	ntonite chips upon completion.			

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Printed On: 1/22/1998

Project: **VPSA** 68TR678 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor: Drilling Method:** LEA

Geoprobe Sampling Method: Macr Groundwater Observations: Macro core

Depth: NM

At:

Hours 🚆

tart Date 9/10/96 **End Date** 9/10/96

Boring ID **SK-SB-72**

L. Bianchi

J. Klapheke

Logged By: L. Bianc Drilling Foreman: Drill Rig: GP 5400 Surface Elevation:

Depth:		At:	Hours	Easting:		
	Sar	nple Informa	tion	Sample Description		
Elevation/ Depth	Sample No.	Recovery (१)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1017935	100		Dark brown, fine SAND, some Silt, trace medium Sand, moist, loose, root fragments	0.1	
†	1017936	100		17": As above; 6": Black fine SAND, some Silt, moist, dense, organic odor	0.2	
+4	1017937	100		Olive grey fine SAND, little Clay, trace Silt, moist, dense	1.9	
†	1017938	100		Yellowish brown, fine to medium SAND, some coarse Sand, trace(+) Silt, trace(-) fine Gravel, wet at ≈ 7.0', loose	0.7	
+8				No recovery		
† . †				No recovery		
12	1017944	50		Olive grey varved CLAY, trace Silt, wet, dense	0.1	
Ŧ	1017942	50		As above	0.2	
16				Bottom of boring at 15.0'		
+ 24						

LEA Comm Client: Pr Location:	ratt & Whit East Hart	ford, CT		Start Date 9/10/96 Boring 1 9/10/96 SK-SB-	
Drilling Co Drilling Mo Sampling N Groundwat Depth: N Depth:	ethod: G Method: ter Observa M A	At: At:	Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Klaphek Drill Rig: GP 5400 Surface Elevation: Northing: Easting:	6
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1017943	100		Dark brown, fine SAND, with Silt, little medium Sand, mois loose, root fragments	2.9
†	1017944	100		18": Yellowish brown, fine SAND, little Silt, trace medium Sand, moist, loose; 5": Black, fine SAND and SILT, moist, dense, organics	98.0
+4	1017945	100		Brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, moist, loose	0.3
†	1017946	100		As above; wet at ≈ 7.0'	7.6
+ + +	1017947	100		As above	5.1
Ī	1017948	100	·	As above	0.1
12	1017949	100		18": As above; 5": Olive grey, varved CLAY, trace Silt, we stiff	0.3
‡	1017950	100		As above	0.1
+ 				Bottom of boring at 15.0'	
20				·	
24					
Comments	: Boreho	ole backfille	ed with b	entonite chips upon completion.	

Project: LEA Com	VPSA	TR678		Start Date Boring II)
Client: Pr	ratt & White East Harth	ney		Erit Date 9/10/96 SK-SB-7	4
Drilling Co Drilling Me Sampling N	ontractor: ethod: G Method: ter Observat M A	LEA ieoprobe Macro c	Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Klapheke Drill Rig: GP 5400 Surface Elevation:	T
Elevation/ Depth	Sample No.	Recovery	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017951	100		Dark brown, fine SAND, with Silt, little medium Sand, moist, loose, root fragments	1.0
† †	1017952	100	·	Yellowish brown, fine SAND, some Silt, moist, loose	0.4
+4	1017953	100		10": As above; 13": Brown, fine to medium SAND, some coarse Sand, trace Silt, moist, loose	36.0
† †	1017954	100		As above; wet at ≈ 7.0'	10.4
8				No recovery	
†				No recovery	
+12 +	r			No recovery	-
+				No recovery	
16			_	Bottom of boring at 15.0'	\$
-20					
÷ 24					
Comments	: Boreho	le backfil	led with b	entonite chips upon completion.	
	=				

Project: VPSA rt Date Boring ID LEA Comm No: 68TR678 1/96 Client: Pratt & Whitney End Date **SK-SB-75** Location: East Hartford, CT 9/17/96 Logged By: L. Bianchi
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation: LEA **Drilling Contractor:** Drilling Method: J. Klapheke Geoprobe Sampling Method: Macro core Groundwater Observations:
Depth: NM At: Northing: Hours

Depth:		At:	Hours	Easting:	
	Sau	mple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1017961	100		2": Asphalt; 6": Subbase; 15": Black/brown, fine SAND and SILT, moist, slightly stiff	125.0
‡	1017962	100		10": As above; 7": Black, fine SAND, some Silt, moist, slightly dense, organic odor; 6": Olive brown, fine SAND, little Silt, moist, slightly loose	225.0
† 4	1017963	100		6": As above; 17": Greenish grey, fine SAND and SILT, moist, stiff	500.0
†	1017964	100		Light reddish brown, fine to medium SAND, little Silt, trace coarse Sand, wet at ≈ 7.0', loose	120.0
8	1017965 1017966	100		As above	225.0
Į Į	1017967	100		Strong brown, fine to medium SAND, little Silt, trace coarse Sand, wet, loose	78.0
12	1017968	50		Olive grey, varved CLAY, little Silt, wet, stiff	1.2
‡	1017969	50		As above	1.3
16				Bottom of boring at 15.0'	
-20					
+24					
Ŧ					
Commen	ts: Boreho	ole backfil	led with be	entonite chips upon completion.	



Project: **VPSA** LEA Comm No: 68TR678 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEADrilling Method: Geopro Sampling Method: Macr Groundwater Observations: LEA Geoprobe Macro core

Depth: NM

Hours

Start Date 9/11/96 **End Date** 9/11/96

Boring ID

SK-SB-76

Logged By: L. Bianchi
Drilling Foreman: J. Klar
Drill Rig: Geoprobe 5400
Surface Elevation: J. Klapheke

Depth:		At:	Hours	Easting:	
	San	nple Informa	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (४)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1017970	100		2": Asphalt; 10": Subbase; 5": Dark brown/black fine Sand, little Silt, moist, loose; 6": Black, fine SAND and SILT, moist, dense, organic odor	0.9
	1017971	100		2": As above; 21": Olive brown, fine SAND, some Silt, moist, slightly dense	225.0
†	1017972	100		7": As above; 16": Light reddish brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	22.0
† †	1017974	100		As above; wet at ≈ 2.0'	110.0
+8	1017975	100		As above	47.0
-	1017976	100	· ·	As above	47.0
12	· · · · · · · · · · · · · · · · · · ·			No recovery	
}				No recovery	
16	•			Bottom of boring at 15.0'	
-20					
24					
Comments:	Porebo	le backfi	llad with he	entonite chips upon completion.	<u></u>

VPSA Project: LEĂ Comm No: 68TR678 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations:

Depth: NM

Hours

tart Date 9/11/96 **End Date** 9/11/96

Boring ID **SK-SB-77**

Logged By: L. Bianchi
Drilling Foreman: J. Klap
Drill Rig: Geoprobe 5400
Surface Elevation: J. Klapheke

Depth:	At: Hours				Hours	₹ Easting:		
Elevation/ Depth	San	ple Informs	ation	Sample Description				
	Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)			
0	1017977	100		Dark brown/black fine SAND and SILT, moist, slightly dense, organic odor	22.0			
<u> </u>	1017980	100		Strong brown, fine SAND, little Silt, moist, loose	2.0			
+4	1017979	100		As above	4.7			
†	1017980	100		Light reddish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet at ≈ 7.0', loose	8.3			
+8	1017981	50		As above; wet	3.6			
	1017982	50		As above	12.0			
12				No recovery				
Ŧ				No recovery				
16				Bottom of boring at 15.0'				
20								
24								
Comments	: Boreho	le backf	illed with be	entonite chips upon completion.				

68TR678

Hours

Project: VPSA

LEA Comm No:

Drilling Contractor:

Drilling Method:

Depth: NM

Client: Pratt & Whitney

Sampling Method: Mac Groundwater Observations:

Location: East Hartford, CT

tart Date 1/12/96 End Date 9/12/96

Boring ID

SK-SB-78

LEA Logged By: L. Bianchi

Geoprobe Drilling Foreman: J. Klapheke Drill Rig: GP 5400

Surface Elevation:

Northing: Easting:

Depth:		λt:	Hours	Easting:	
	San	ple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
+ 0	1017989	100		Dark brown, fine to medium SAND, little Silt, trace(-) coarse Sand, moist, loose, root fragments	0.1
‡	1017990 1017991	100		Strong brown, fine to medium SAND, little Silt, trace coarse Sand, moist, loose	0.1
+4	1017992	100		As above	0.1
† † † †	1017993	100		Light reddish brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose, (wet at ≈ 7.0')	1.0
+8 +	1017994	50		As above	2.5
+	1017995	50		Yellowish brown, fine to medium SAND, some coarse Sand, little Silt, trace fine Gravel, wet, loose	1.2
+12	1017996	100		As above	0.4
†	1017997	100		As above	0.1
16				Bottom of boring at 15.0'*	
20					
24					

Comments:

Borehole backfilled with bentonite chips upon completion.

*Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'

Printed On: 6/16/1998

Start Date Project: **CRYOGENICS Boring ID** LEA Comm No: 68TR678 9/13/96 Client: Pratt & Whitney **End Date SK-SB-80** Location: East Hartford, CT 9/13/96 Logged By: L. Bianchi **Drilling Contractor:** LEA Drilling Method: Geopre Sampling Method: Maci Groundwater Observations: Geoprobe Drilling Foreman: J. Klapheke Drill Rig: Geoprobe 5400 Surface Elevation: Macro core Northing: Depth: NM At:

Depth:	1	At:	Hours	Easting:		
Elevation/ Depth	Sample Information			Sample Description		
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
10	1018009	100		8": Dark brown, fine SAND and SILT, moist, loose, root fragments; 15": Strong brown, fine SAND, with medium Sand, trace Silt, moist, loose	0.0	
1	1018010	100		As above	0.0	
+4	1018011	100		As above	0.0	
<u> </u>	1018012	100		Light reddish brown, fine SAND, some medium Sand, little coarse Sand, trace Silt, wet at \approx 7.0', loose	0.0	
+8	1018013	50		As above	1.9	
‡ †	1018014	50		Dark reddish brown, fine to medium SAND, some Silt, trace coarse Sand, wet, slightly dense	1.0	
12	1018015	100		As above	0.0	
Ī	1018016	100		As above	0.0	
16				Bottom of boring at 15.0'*		
20						
† † † †						
+24						
Comments	: Boreho	ole backf	illed with be	entonite chips upon completion.		

* Olive grey varved CLAY, trace Silt, wet, stiff found at = 15.0'



Project: Linde Gas LEA Comm No: 68TR676 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA **Drilling Method:** Geoprobe Sampling Method: Macr Groundwater Observations: Macro core

Depth: NM At: Hours Start Date 9/19/96 **End Date** 9/19/96

Boring ID

SK-SB-82

Logged By: L. Bianchi Drilling Foreman: J. J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Depth:	1	At:	Hours	₹ Easting:	
	San	nple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1018388	100		Weak red, fine SAND, some medium Sand, little Silt, trace(+) coarse Sand, trace(-) fine Gravel, moist, dense	2.5
†	1018389	100		3": Concrete layer; 20": Red, fine to medium SAND, some coarse Sand, little fine Gravel, trace Silt, moist, dense	3.1
+4	1018390 1018391	100		8": As above; 15": Reddish grey, fine SAND, little Silt, very moist, slightly dense	4.7
† †	1018392	100		Reddish brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, slightly dense	3.5
+8	1018393	100		Yellowish red, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, slightly dense	4.1
† †	1018394	100		Light brown, fine to medium SAND, trace Silt, wet, loose	3.4
12	1018395	100		Grey, fine to medium SAND, trace Silt, wet, loose	5.8
. ‡	1018396	100		Olive grey, varved CLAY, trace Silt, wet, stiff	7.1
16				Bottom of boring at 15.0'	
20					
24					
‡	1				

Project: Linde Gas Date Boring ID LEA Comm No: 68TR676 /96 Client: Pratt & Whitney SK-SB-83 9/20/96 East Hartford, CT Location: **Drilling Contractor:** Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Sampling Method: Macro core Surface Elevation: **Groundwater Observations:** Hours Depth: NM Northing: At: Easting: Depth: Hours At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018415 25 Very dusky red, fine to medium SAND, some coarse Sand, 2.5 little fine Gravel, trace coarse Gravel, moist, very dense, root fragments 1018416 25 1.9 Red, fine to medium SAND, some coarse Sand, little fine gravel, trace coarse Gravel, moist, very dense 1018417 100 3.3 As above 1018418 1018419 100 3.2 Reddish grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, dense, wet ≈ 7.0' - 8.0' 1018420 100 3.2 As above 100 1018421 3.3 Light yellowish brown, fine to medium SAND, little Silt, wet, slightly loose 12 ō No recovery Printed On: 1/22/1998 0 No recovery Bottom of boring at 15.0' * 16 20

Comments:

24

Borehole backfilled with bentonite chips upon completion.

* Olive grey, varved CLAY, trace Silt, wet, stiff at 15.0'



Boring

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Project: Linde Gas Start Date Boring ID LEA Comm No: 68TR676 9/19/96 Client: Pratt & Whitney **End Date SK-SB-84** East Hartford, CT Location: 9/19/96 Logged By: **Drilling Contractor:** L. Bianchi Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro core Groundwater Observations: Surface Elevation: Northing: Depth: NM Hou Depth: Easting: At: Hou Sample Information Sample Description Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Blows Sample Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness Dusky red, fine to medium SAND, some coarse Sand, little 3.6 1018397 50 Silt, trace fine Gravel, moist, dense 1018398 50 3.7 As above 1018399 50 3.8 As above 50 1018400 5.1 Pale red, fine SAND, little Silt, trace medium Sand, very moist, loose 1018401 50 3.8 Light yellowish brown, fine SAND, some medium Sand, little Silt, trace coarse Sand, wet, loose 1018402 50 2.7 As above 12 1018403 100 3.1 Dark grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose 2.0 1018404 100 Olive grey, varved CLAY, trace Silt, wet, stiff Bottom of boring at 15.0' 16 20 Comments: Borehole backfilled with bentonite chips upon completion.

Depth: N	ethod: G Method: ter Observa M	LEA leoprobe Macro cl tions: At:	ore Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeto Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	n
Depth:		AU: ople Informati		Existing: Sample Description	
Devation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1018405	50		Dusky red, fine to medium SAND, some coarse Sand, little fine Gravel, trace(+) Silt, trace(-) coarse Gravel, moist, dense	3.1
‡	1018406	50		As above	3.7
+4	1018407	100		13": Yellowish brown, fine SAND, trace Silt, moist, loose; 10": Grey, fine SAND, trace Silt, moist, loose	2.1
†	1018408	100		Pale red, fine SAND, some medium Sand, trace Silt, very moist, loose	2.9
+8	1018409	25		Light brown, fine to medium Sand, some Silt, loose, wet	3.0
Ī	1018410	25		As above	2.7
12	1018411	100		Dark grey, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose	2.6
‡	1018412	100		As above *	1.7
16				Bottom of boring at 15.0'	
÷ 20					
24					

Depth: NM

Tie Down Project: LEA Comm No: 68TR676 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macro core **Groundwater Observations:**

Start Date 9/23/96 and Date 23/96

Boring ID

SK-SB-86

Logged By: L. Bianchi

Drilling Foreman: J. Swe Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Depth:		At:	Hours	Easting:	
	Sar	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1018465	100		Brown, fine SAND, some Silt, moist, loose, root fragments	0.8
† †	1018466	100		Light yellow, fine SAND, trace Silt, moist, loose	0.8
+ 4	1018467	100		As above	0.9
‡	1018468	100		Grey, medium to coarse SAND, little fine, trace Silt, wet at ≈ 7.0', loose	320.0
-8	1018469	100		As above	34.0
†	1018470	100		Dark yellow, fine to medium SAND, some Silt, wet, loose	12.0
12	1018471	100		Olive grey, varved CLAY, trace Silt, wet, stiff	5.0
†	1018472	100		As above	2.7
16				Bottom of boring at 15.0'	
+					
20					
† † +					
-24					
 					

Start Date Project: Tie Down **Boring ID** LEA Comm No: 68TR676 9/23/96 **End Date** Client: Pratt & Whitney **SK-SB-87** Location: East Hartford, CT **9/23/96 Drilling Contractor:** LEA Logged By: L. Bianchi Drilling Method: Drilling Foreman: J. Sweeton Geoprobe Sampling Method: Macro core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM Hou Northing: At: Depth: At: Hours Easting: Sample Description Sample Information Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018457 100 0.2 Brown, medium SAND, some fine Sand, little Silt, moist, loose, root fragments 1018458 100 1.2 Light brown, medium SAND, some fine Sand, trace Silt, moist, loose 100 18.0 1018459 As above Grey, fine to medium SAND, little coarse, trace Silt, wet at \approx 7.0', loose 1000+ 1018460 100 1018461 100 54.0 As above 1018462 100 16.0 Olive brown, medium SAND, some fine Sand, little coarse Sand, trace Silt, wet, loose 12 1018463 100 7.1 Olive grey, varved CLAY, trace Silt, wet, stiff 1.9 1018464 100 As above Bottom of boring at 15.0' 16 20 24 Comments: Borehole backfilled with bentonite chips upon completion.

			250% KB	Tage 1 of 1	
Project: LEA Comn	Tie Down	TR676	1	Start Date Boring II)
Client: Pr	att & Whit	mev	1 / 1	Fud Data	_
Location:	East Harti	ford, CT		9/23/96 SK-SB-8	8
Drilling Co Drilling Me Sampling N Groundwat Depth: NI Depth:	ethod: G Method: ter Observat M A	LEA Geoprobe Macro o tions: At: At:		Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
	San	nple Informa	ition	Sample Description	1
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1018448	100		Dark brown, medium SAND, some fine, trace Silt, moist, loose root fragments	0.0
	1018449	100		Light brown, medium SAND, some fine, trace Silt, moist, very loose	0.0
+4	1018450 1018451	100		As above	0.4
<u> </u>	1018452	100		As above, wet at ≈ 7.0'	1.0
8	1018453	100		As above	20.0
	1018454	100		Greyish brown, medium to coarse SAND, some fine Sand, wet, loose	12.0
+12	1018455	100		Olive grey, varved CLAY, trace Silt, wet, stiff	2.1
	1018456	100		As above	1.0
16				Bottom of boring at 15.0'	
20					-
†					
24					
Comments	: Boreho	le backfi	lled with be	entonite chips upon completion.	

Project: Tie Down LEA Comm No: 68TR676 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Sampling Method: Geoprobe Macro core

Groundwater Observations:
Depth: NM At:
Depth: At: Hours Start Date 9/20/96 End Date 9/20/96

Boring ID SK-SB-89

Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Geoprobe 54 Surface Elevation: J. Sweeton Geoprobe 5400

Northing: Easting:

Sample No. 1018422 1018423	Recovery (2)	Biows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Dark brown, fine SAND, with medium Sand, some Silt, moist, loose, root fragment Light yellowish brown, fine to medium SAND, little Silt, moist, loose	(ppm 1.7
1018422	100	Bious /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Dark brown, fine SAND, with medium Sand, some Silt, moist, loose, root fragment Light yellowish brown, fine to medium SAND, little Silt,	1.7
1018423	100		moist, loose, root fragment Light yellowish brown, fine to medium SAND, little Silt,	
				2.8
1018424	100			1
	1 1		As above	4.1
1018425	100		Light yellowish brown, medium to coarse SAND, with fine Sand, trace Silt, wet, loose	5.7
1018426	50		Strong brown, fine SAND, with medium Sand, little coarse Sand, trace(+) Silt, wet, loose	4.9
1018427	50		As above	5.6
1018428	100		Olive grey, varved CLAY, trace Silt, wet, stiff	4.1
1018429	100		As above	3.7
			Bottom of boring at 15.0'	
	1018427 1018428 1018429	1018427 50 1018428 100 1018429 100	1018427 50 1018428 100 1018429 100	Sand, trace Silt, wet, loose Strong brown, fine SAND, with medium Sand, little coarse Sand, trace(+) Silt, wet, loose 1018427 50 As above 1018428 100 Olive grey, varved CLAY, trace Silt, wet, stiff 1018429 100 As above Bottom of boring at 15.0'

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Project: Tie Do LEA Comm No: Tie Down 68TR676 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geoprobe Sampling Method: Maci Groundwater Observations: Macro core

Depth: NM Depth: At: Hours **Start Date** 9/24/96 **End Date** 9/24/96

Boring ID **SK-SB-90**

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton

Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Depth:	F	At:	Hours	₹ Easting:	
	Sample Information			Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
10	1018475	100		Dark brown, fine SAND, some Silt, moist, loose, root fragments	10.0
‡	1018476	100		Light yellow, fine to medium SAND, little Silt, moist, loose	1.2
+4	1018477	100		12": As above; 11": Brown, medium SAND, some fine Sand, trace coarse, moist, loose	0.9
† †	1018478 1018479	50		As above	7.4
-8	1018480	100		Olive brown, medium to coarse SAND, little fine Sand, trace Silt, wet, loose	44.0
†	1018481	100		19": As above; 4": Olive grey, varved CLAY, trace Silt, wet, stiff	60.0
12	1018482	100		As above	7.3
Ŧ	1018483	100		As above	4.0
				Bottom of boring at 15.0'	
24 					
Comments	<u></u>			entonite chips upon completion.	L

Project: Tie Down LEA Comm No: 68 68TR676 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geopre Sampling Method: Maci Groundwater Observations: Geoprobe Macro core

Depth: NM

Hours

Start Date 9/20/96 **End Date** 9/20/96

Boring ID

SK-SB-91

Logged By: L. Bianchi

Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	A	At:	Hours	Easting:			
	San	nple Informa	tion	Sample Description			
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness			
10	1018430	100		Dark brown, fine SAND, with medium Sand, some Silt, moist, loose, root fragments	85.7		
†	1018431	100	_	Light yellowish brown, fine to medium SAND, little Silt, moist, loose	7.1		
+4	1018432	100		As above	8.4		
‡	1018433	100		Light yellowish brown, medium to coarse SAND, with fine Sand, trace Silt, wet at ≈ 7.5', loose	5.2		
+8				No recovery			
1	1018435	25		12": No recovery; 11": Olive grey, varved CLAY, trace Silt, wet, stiff	4.8		
12	1018436	100		As above	2.1		
†	1018437	100		As above	1.7		
16				Bottom of boring at 15.0'			
20							
† † †							
+ 24							

Project: Tie Down art Date **Boring ID** LEA Comm No: 68TR676 20/96 Client: Pratt & Whitney Date **SK-SB-92** Location: East Hartford, CT 9/20/96 **Drilling Contractor:** L. Bianchi Logged By: Drilling Method: Geoprobe Drilling Foreman: J. Sweeton Sampling Method: Macro core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing: Depth: At: Hours Easting: Sample Description Sample Information Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1018438 100 Dark brown, fine SAND, with medium Sand, some Silt, 6.8 moist, loose, root fragments 1018439 100 7.3 Light yellowish brown, fine to medium SAND, little Silt, moist, loose 1018440 100 5.1 As above 1018441 100 4.7 As above, wet 100 1018442 2.1 Light yellowish brown, medium to coarse SAND, with fine Sand, wet, loose 1018443 100 3.4 10": Olive grey, varved CLAY, trace Silt, wet, stiff 12 2.0 1018444 100 As above 1018445 100 1.7 As above Bottom of boring at 15.0' 16 20 24 Boring No: SK-SB-92 Borehole backfilled with bentonite chips upon completion. Comments:

LEA Comm Client: Pr Location: Drilling Co Drilling Me Sampling M Groundwat Depth: No Depth:	att & Whit East Hart ntractor: thod: G Method: er Observa M	ford, CT LEA seoprobe Macro C	Core Hours	Start Date 10/25/96 Eld Date 10/25/96 SK-SB-9; Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Elevation/ Depth	Sample No.	Recovery	Blaws /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1020692	91		2": Asphalt; 5": Dark reddish brown, fine to medium SAND, some fine Gravel, little Silt, moist, compacted; 14": Reddish brown, fine to medium SAND, some Silt, little coarse Sand, moist, loose	0.2
-4	1020694			6:" As Above; 14": Greenish grey, fine SAND and SILT, stiff, moist; 3": Strong brown, fine SAND, with Silt, some medium Sand, trace coarse Sand, very moist, loose (wet at ∠ 4.0')	T-
				Bottom of Boring at 4.0'	
-8				-	
12					
†					
16					
20					
24					
Comments:	Boreho	le backfil	led with b	entonite chips upon completion.	

Project: Storage Area 2 LEA Comm No: 68VC619 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geopre Sampling Method: Macro Groundwater Observations: Geoprobe Macro Core

Hour

Depth: NM At: **Start Date** 10/25/96 **End Date** 10/25/96

Boring ID SK-SB-94

Logged By: L. B. Drilling Foreman: L. Bianchi

J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	4	At:	Hours	Easting:		
	Sar	nple Informat	ion	Sample Description		
Elevation/ Depth	Sample Recovery		Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
To T	1020695	91		2": Asphalt; 5": Strong brown, fine to medium SAND, some Silt, little fine Gravel, moist, compact; 14": Strong brown, fine to medium SAND, some Silt, moist, loose	0.0	
	1020696	100		As above, wet at ≈ 3.5-4.0'	0.0	
+4				Bottom of boring at 4.0'		
-8						
†						
+12				·		
16						
-20	•					
24						
+ 1						

LEA Comm Client: Pr Location: Drilling Co Drilling Mc Sampling M Groundwat Depth: NI Depth:	ratt & Whit East Hart ontractor; ethod: G Method: ter Observa M	ford, CT LEA ieoprobe Macro C	Core Hours Hours	In 10/25/96 End Date 10/25/96 Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	1
Elevation/ Depth	Sant Sample No.	Recovery	Blows /6*	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T°	1020697	91		2": Asphalt; 5": Strong brown, fine to medium SAND, some Silt, little fine Gravel, moist, compact; 14": Strong brown, fine to medium SAND, some Silt, little coarse Sand, moist,	0.0
+	1020698	100		Noose As above, wet at 3.5'-4.0'	0.0
				Bottom of boring at 4.0'	
16					
- 20 - 24 - Comments	: Boreho	le backfil	led with be	entonite chips upon completion.	

						Tage I Of I	
LEA Com	Storage Ard n No: 68	VC619			Start Date 10/25/96	Boring II)
	ratt & White East Harti				End Date 10/25/96	SK-SB-9	6
Drilling Co Drilling Me Sampling Me Groundwat Depth: Ni Depth:	ethod: G Method: ter Observat M A	LEA leoprobe Macro C tions: At: At:		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Logged By: L. Drilling Foreman Drill Rig: Geo Surface Elevation Northing: Easting:	probe 5400	
	Sam	ple Informa	tion		Sample Description		
Elevation/ Depth	Sample No.	Recovery (2)	Blows /6"	Color, Primary Moisture, S	Grain Size, Secondary Gorting, Sphericity, Angu	rain Sizes, larity,	(ppm)

Depth:	4	At:	Hours	Easting:			
Elevation/	Sar	nple Informa	tion	Sample Description			
	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)			
10	1020699	100		2": Asphalt; 5": Strong brown, fine to medium SAND, some Silt, little fine Gravel, moist, compact; 16": Strong brown, fine to medium SAND, some Silt, little coarse Sand, moist, loose	0.2		
-	1020700	100		As above, wet at ≈ 3.5'-4.0'	0.0		
‡4				Bottom of boring at 4.0'			
‡			ļ				
‡				·			
+8							
Ŧ							
‡							
+12							
Ţ							
† †							
16							
T							
‡							
+20							
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‡							
24							
Ī							
ı							

Boring ID

SK-SB-97

Project: Storage Area 2
LEA Comm No: 68VC619
Client: Pratt & Whitney Start Date 10/25/96 **End Date** Location: East Hartford, CT 10/25/96 Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Geoprobe 54 Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Sampling Method: J. Sweeton Geoprobe Geoprobe 5400 Macro Core Groundwater Observations:
Depth: NM At: Northing: Hours

Depth:		At:	Hours	Easting:	
	Sar	nple Informs	ntion	Sample Description]
Elevation/ Depth	Sample No.	Recovery (%)	Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ް	1020701	48		2": Asphalt; 4": Dark reddish brown, fine to medium SAND, some fine Gravel, little Silt, moist, compact; 5": Greenish grey, fine SAND and SILT, moist, stiff	0.0
†	1020702	48		5" As Above; 6": Strong brown, fine to medium SAND, some Silt, little coarse Sand, trace fine Gravel, wet, loose	0.1
+4				Bottom of boring at 4.0'	
+ 8					
+12					
}					
+ + + 16					
† † †					
+ + 20					
† † + +					
+24					
<u> </u>					
Comments	: Boreho	ole backfi	illed with be	entonite chips upon completion.	

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	TIC DUK	TIAC T		Page 1 of 1	
LEÀ Comi Client: P	Storage Ar n No: 68 ratt & Whit East Hart	VC619 tney		Start Date 10/25/96 End Date 10/25/96 SK-SB-98	
Drilling Co Drilling M Sampling I	ontractor: ethod: G Method: ter Observa M	LEA ieoprobe Macro C	Core Hours Hours	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:	
	San	nple Informat	ion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6°	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
T °	1020703	48		2": Asphalt; 5": Dark reddish brown, fine to medium SAND, some fine Gravel, little Silt, moist, compact; 4": Yellowish brown, fine to medium SAND, little Silt, trace coarse Sand,	0.0
†	1020704	48		moist, loose 7": Greenish grey, fine SAND and SILT, moist, stiff; 4": Brown, fine SAND, some Silt, trace medium Sand, wet, loose	0.2
T *				Bottom of boring at 4.0'	
18					
+					
12					
16					
† † †					
20					
-24					
Comments	. Roreho	le hackfil	led with h	entonite chips upon completion.	
Comments	. Doieilu	NO DOCKIII	.va miii b	ontonia dinpa apori dompidadini	

Project: Tank Trailer Storage Area Start Date **Boring ID** 68VC610 LEA Comm No: 11/12/96 Client: Pratt & Whitney **End Date SA-SB-99** Location: East Hartford, CT 11/12/96 Logged By: L. B Drilling Foreman: **Drilling Contractor:** L. Bianchi Drilling Method: Hand Auger J. Sweeton Sampling Method: **Bucket Auger** Drill Rig: Hand Auger Surface Elevation: **Groundwater Observations:** Depth: NM Hours Northing: At: Hours Depth: At: Easting: Sample Description Sample Information Elevation/ Depth Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1021134 100 0.0 2": Forest cover; 10": Black, fine SAND, little Silt, organic material, loose, moist, root fragments 1021135 100 0.0 2": As Above; 10": Light greenish grey, fine SAND and SILT, moist, loose, mottled Bottom of Boring at 2.0' 12 Printed On: 6/17/1998 16 20 24 Boring **Comments:** Auger hole backfilled upon completion. N O



mpling Noundwatepth: Nepth:	ter Observa M	At: At:	Hours Hours	<u>₹</u>	Surface Elevation: Northing: Easting:	
evation/ pth	Sample No.	Recovery	Blows /6"		Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ް	1021136	100			orest litter; 10": Black, fine SAND, some Silt, moist,	0.0
†	1021137	100			e, root fragments, organic layer yellowish brown, fine SAND, little Silt, moist, loose	0.0
‡	r-u			\mott	led	
‡ !				Botto	om of Boring at 2.0'	
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‡			1			
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+ 20						
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+ 24						
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omments	: Auger	hole back	filled upon	comp	letion	L
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Tank Trailer Storage Area m No: 68VC610 Start Date Project: **Boring ID** 11/12/96 End Date LEA Comm No: Client: Pratt & Whitney **SA-SB-101** Location: East Hartford, CT 11/12/96

Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Hand Auger Surface Elevation: **Drilling Contractor:** LEA **Drilling Method:** Hand Auger J. Sweeton Sampling Method: **Bucket Auger**

Groundwater Observations: Depth: NM At: Hours Northing: Depth: Hours At: Easting:

Depui:		<u> </u>	110012	÷ casung;		
	San	nple Informat	tion	Sample Description	_	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness		
10	1021138	100		2": Forest litter; 10" Strong brown, fine SAND, little Silt,	0.0	
İ	1021139	100	-	moist, loose	0.0	
+		 		Light brown, fine SAND, little Silt, moist, loose		
†	İ			Bottom of Boring at 2'		
1						
+4						
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+						
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+	1					
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+	1					
+16			ŧ			
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+	İ	1				
+ 20						
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+						
1						
+						
†						
+ 24						
+						
t						
Comments	: Auger	hole back	cfilled upon	completion.		
					1	

rilling Mo Impling N	ntractor: ethod:	ford, CT LEA land Aug Bucket	er « Auger	Logged By: L. Bianchi Drilling Foreman: J. Sweeton Drill Rig: Hand Auger Surface Elevation:	
epth: Nepth:	M A	At: At:	Hours Hours	Northing: Easting:	
levation/ epth	Sample No.	Recovery	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity,	(ppm)
Το	1021140	100		Sedimentary Structures, Density, Cohesiveness Strong brown, fine SAND and SILT, moist, loose	3.0
<u> </u>	1021141	100		5": As Above; 7": Light greyish brown, fine SAND, trace Silt, moist, loose	0.0
				Bottom of Boring at 2.0'	
16					
- 24 	: Auger	hole back	filled upon	completion.	

Project: Tank Trailer Storage Area LEA Comm No: 68VC610 Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** Hand Auger Drilling Method: Sampling Method: **Bucket Auger**

Start Date 11/12/96 **End Date** 11/12/96

Boring ID SA-SB-103

Logged By: L. Bianchi Drilling Foreman: J. Drill Rig: Hand Auger Surface Elevation: Northing: J. Sweeton

Sampling N	Aethod: ter Observa	Bucket	Auger \	Drill Rig: Hand Auger Surface Elevation:	
Depth: Ni Depth:	M .	At: At:	Hours Hours	Northing: Easting:	
	Sar	mple Inform	ation	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6*	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ°	1021142 1021143	100 100		Light brown, fine SAND, little Silt, moist, loose As Above	0.0 0.0
†				Bottom of Boring at 2.0'	
‡,				•	
‡					
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+8					
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+12					
†					
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‡					
+16 1					
Ī					
+					
20					
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‡	,				
24					
724					
<u> </u>			1.64 - 1		
Comments	: Auger	nole bac	ktilled upon	completion.	ì

Tank Trailer Storage Area Project: Start Date **Boring ID** 68VC610 11/12/96 LEA Comm No: Client: Pratt & Whitney **End Date SA-SB-104** Location: East Hartford, CT 11/12/96 **Drilling Contractor: LEA** Logged By: L. Bianchi Hand Auger Drilling Foreman: **Drilling Method:** J. Sweeton Sampling Method: **Bucket Auger** Drill Rig: **Hand Auger Groundwater Observations:** Surface Elevation: Northing: Depth: NM Hours At: Hours Depth: Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Blows ecovery (%) Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1021144 1021145 100 0.0 2": Forest litter; 5": Black, fine SAND and SILT, moist, loose, organic matter, root fragments; 5": Olive brown, 1021146 100 0.0 fine SAND, with Silt, trace medium Sand, moist, loose As Above Bottom of Boring at 2.0' 12 Printed On: 6/17/1998 16 20 24 Boring Comments: Auger hole backfilled upon completion. No: SA-SB-104 Project: Tank Trailer Storage Area Start Date **Boring ID** 68VC610 11/12/96 End Date LEA Comm No: Client: Pratt & Whitney **SA-SB-105** Location: East Hartford, CT 11/12/96 L. Bianchi **Drilling Contractor:** Logged By: Drilling Method: Hand Auger Drilling Foreman: J. Sweeton Sampling Method: Drill Rig: Hand Auger **Bucket Auger** Groundwater Observations: Surface Elevation: Depth: NM Hours Northing: At: Hours Depth: At: Easting: Sample Information Sample Description Elevation/ Color, Primary Grain Size, Secondary Grain Sizes, Depth Sample No. ecovery (%) Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness O 1021147 100 0.0 2": Forest litter; 10": Black, fine SAND and SILT, moist, loose, organic matter, root fragments 1021106 100 0.0 2": Brown, fine SAND, with Silt, moist, loose; 10": Greenish grey, SILT and fine SAND, moist, loose, mottled Bottom of Boring at 2.0' 12 16 20 24 Boring Auger hole backfilled upon completion. **Comments:**

Tank Trailer Storage Area Start Date Project: Boring ID 68VC610 LEA Comm No: 11/12/96 Client: Pratt & Whitney **End Date SA-SB-106** Location: East Hartford, CT 11/12/96 **Drilling Contractor:** Logged By: L. Bianchi J. Sweeton Drilling Method: Hand Auger Drilling Foreman: Sampling Method: **Bucket Auger** Drill Rig: Hand Auger **Groundwater Observations:** Surface Elevation: Depth: NM Hours Northing: At: Depth: At: Hours Easting: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0 1021107 1021108 0.0 0.0 100 100 2": Forest litter; 10": Black, fine SAND and SILT, moist, loose, root fragments, organic layer 3" Brown, fine SAND, with Silt, moist, loose; 9": Greenish grey, SILT and fine SAND, moist, loose Bottom of Boring at 2.0' 12 Printed On: 6/17/1998 16 20 Boring No: SA-SB-106 Auger hole backfilled upon completion. Comments:

Tiedown Area Project: LEA Comm No: 68V7033 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations:

Depth: NM Depth:

Hours Hours

t Date 01/16/97 **End Date** 01/16/97

Boring ID

SK-SB-107

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: J. Sweeton

Northing: Easting:

	Sample No. 1024987 1024988 1024989	Recovery (X) 63	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 4": Pavement and Traprock; Next 4": Brown, fine to very fine SAND, trace(-) Gravel, moist, dense; 3": Orange brown, fine SAND, moist, loose; Bottom 3": Grey brown,	(ppm)
Depth	1024987	63	Blows /6*	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness Top 4": Pavement and Traprock; Next 4": Brown, fine to very fine SAND, trace(-) Gravel, moist, dense; 3": Orange brown, fine SAND, moist, loose; Bottom 3": Grey brown,	
	1024988	63		very fine SAND, trace(-) Gravel, moist, dense; 3": Orange brown, fine SAND, moist, loose; Bottom 3": Grey brown,	0
		1 1			
+	1024989		1	fine SAND, trace very fine SAND, moist, dense	0
†	1024989			Top 4": As Above; Bottom 11": Orange brown, fine SAND, trace medium Sand, moist, loose	
1		63		Top 10": As Above; Bottom 5": Grey, fine SAND, little medium Sand, wet, loose	0
+ -	1024990	63		As Above	7
8	1024991	75		Top 12": Orange brown-grey, fine SAND, little medium Sand, wet, loose; Bottom 6": Grey, CLAY, trace fine Sand, wet, dense	10
‡	1024992	75		As Above	10
12				Bottom of Boring at 12'	
‡					
‡					
+16					
‡					
20					
†					
24			:		
Comments:	Boreho	le backfi	illed with be	entonite chips upon completion.	<u> </u>
				• •	

Project: Tiedown Area LEA Comm No: 68V7033 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NM Depth:

Hours

rt Date 01 6/97 End Date 01/16/97

Boring ID

SK-SB-108

Logged By: D. Brisson

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing: Easting:

Elevation/ Color, Primary Grain Size, Secondary Grain Sizes, Recovery Blows Recovery Blows	Depth:		At:	Hours		
Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness 1024993 63 Top 4": Blacktop & Traprock; Middle 6": Brown, fine to very fine SAND, trace(-) medium Sand, trace organics moist, dense; Bottom 5": Orange brown, fine to very fine SAND, trace(-) medium Sand, moist, dense; Bottom 11": Grey, fine to very fine SAND, moist, dense; Bottom 11": Grey, fine SAND, moist, dense; Bottom 11": Grey, fine SAND, moist, dense; Bottom 11": Grey, fine SAND, moist, loose 1024996 75 Top 14": As Above; Bottom 4"; Orange brown, medium to fine SAND, moist, loose 1024996 75 Top 2": As Above; Middle 3": Grey, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose 1024999 63 As Above 1024999 63 Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense 12 Bottom of Boring at 12'		San	nple Informat	ion	Sample Description	
fine SAND, trace(-) medium Sand, trace organics moist, dense; Bottom 5": Orange brown, fine to very fine SAND, trace(-) medium Sand, moist, dense; Bottom 11": Grey, fine to very fine SAND, moist, dense; Bottom 11": Grey, fine SAND, trace(-) medium Sand, moist, loose 1024995 75 Top 14": As Above; Bottom 4"; Orange brown, medium to fine SAND, moist, loose 1024996 75 Top 2": As Above; Middle 3": Grey, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose 1024998 63 As Above 1024999 63 Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense 12 Bottom of Boring at 12'		Sample No.	Recovery (४)	Blows /6"	Moisture, Sorting, Sphericity, Angularity,	(ppm)
Top 4": Grey, fine to very fine SAND, moist, dense; Bottom 11": Grey, fine SAND, trace(-) medium Sand, moist, loose Top 14": As Above; Bottom 4"; Orange brown, medium to fine SAND, moist, loose 1024996 75 Top 2": As Above; Middle 3": Grey, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose 1024997 63 As Above 1024999 63 Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense 12 Bottom of Boring at 12'		1024993	63		fine SAND, trace(-) medium Sand, trace organics moist, dense; Bottom 5": Orange brown, fine to very fine SAND,	0
medium to fine SAND, moist, loose Top 2": As Above; Middle 3": Grey, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose As Above Top 1024997 63 As Above; Middle 3": Grey, fine SAND, trace(-) fine Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose As Above Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense Bottom of Boring at 12'	1	1024994	63		Top 4": Grey, fine to very fine SAND, moist, dense; Bottom	0.0
trace(-) medium Sand, wet, moderately dense; Bottom 13": Grey, medium to fine SAND, wet, loose 1024997 63 As Above 1024999 63 Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense 12 Bottom of Boring at 12'	† 4	1024995	75		Top 14": As Above; Bottom 4"; Orange brown, medium to fine SAND, moist, loose	0
1024998 63 Top 10": As Above; Bottom 5": Grey, CLAY, trace(-) fine Sand, wet, dense Bottom of Boring at 12' Bottom of Boring at 12'	+	1024996	75		trace(-) medium Sand, wet, moderately dense; Bottom 13":	10
Sand, wet, dense Bottom of Boring at 12' 16 20	+8	1024997 1024998	63		As Above	80
Bottom of Boring at 12*	† †	1024999	63			5
	+12 1				Bottom of Boring at 12'	
	1					
	16					
	+					
-24	20					
	. † . †					
	-24					
Comments: Borehole backfilled with bentonite chips upon completion.						

Start Date Project: Tiedown Area Boring ID LEA Comm No: 68V7033 01/16/97 Client: Pratt & Whitney **End Date** SK-SB-109 Location: East Hartford, CT 01/16/97 Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** LEA Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: J. Sweeton Geoprobe Macro Core Depth: NM Northing:

Depth:	1	At:	Hours	Easting:	
	San	npie Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (X)	Blows ∕6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
•	1025000	63		Top 4": Top Soil; Middle 4": Brown, fine to very fine SAND, trace(-) medium Sand, moist, dense; Bottom 7": Orange brown, fine to very fine SAND, trace medium Sand, moist,	0
† † †	1025001	63		Grey brown, fine SAND, trace medium Sand, moist, loose, 1/2" Clay lense in bottom of sample	0
† 4	1025002	75		As Above	0
I I	1025003	75		Grey, fine SAND, wet, loose	5
+ 8	1025004	75		As Above	40
1	1025006	75		Top 10": As Above; Bottom 8": Grey, CLAY, trace(-) fine Sand, wet, dense	10
12	ļ ———			Bottom of Boring at 12'	
†					
16					
20				·	
+ 24					
_ 					
Commen	ts: Boreho	le backfil	led with be	entonite chips upon completion.	



Project: Tiedown Area LEA Comm No: 68V7033 Client: Pratt & Whitney Location: East Hartford, CT LEA

Drilling Contractor: Drilling Method: Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NM At:

Start Date 01/20/97 End Date 01/20/97

Boring ID

SK-SB-110

Logged By: D. Brisson

Drilling Foreman: J. Swo Drill Rig: Geoprobe 5400 Surface Elevation: J. Sweeton

Northing:

Depth: Depth:	NM		At: At:	Hours	Northing: Easting:	
		Sam	npie Informat	ion	Sample Description	
Bevation/ Depth		Sample No.	Recovery (火)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°		1025010	75		Top 2": Topsoil; Middle 6": Grey brown, fine to medium SAND, trace organics, moist; Bottom 10": Orange brown, fine SAND, trace(-) medium Sand, moist, loose	0
†		1025011	75		As Above	0
+4	-	1025012	63		Alternating bands of grey-orange brown, fine SAND, trace medium Sand, moist, loose	5
<u> </u>	-	1025013 1025014	63		Top 4": As Above; Bottom 11": Grey, fine to medium SAND, wet, loose, petroleum odor	30
8		1025015	63		Top 6": Grey, fine SAND, wet, moderately dense, petroleum odor; Middle 2": Orange, fine SAND, wet, heavy iron staining, moderately dense; Bottom 7": Greenish grey, fine	45
+12		1025016	63		SAND, wet, loose Top 6": As Above, grading to medium to fine SAND; Middle 3": Grey, coarse to fine SAND, trace(-) fine Gravel, wet, loose; Bottom 6": Grey, CLAY, trace(-) fine to very fine Sand, wet, moist	40
<u> </u>			-		Bottom of Boring at 12'	
+ + 16	•					
20						
† † † †						
24						
Comme	nts:	Boreho	le backfil	led with be	ntonite chips upon completion.	<u> </u>
					·	

Tiedown Area Project: LEA Comm No: 68V7033 Client: Pratt & Whitney East Hartford, CT Location:

LEA Drilling Contractor: Drilling Method: Geoprobe Sampling Method: **Macro Core**

Groundwater Observations:

Depth: NM Depth: At:

Hours Hours

Start Date 01/20/97 **End Date** 01/20/97

Boring ID SK-SB-111

Logged By: D. Brisson

Drilling Foreman: J. Sweeton Geoprobe 5400

Drill Rig: Geopr Surface Elevation:

Northing: Easting:

Elevation/ Depth	Sample	ple Informati	on	Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
Depth	Sample		1	Color Drimowy Crain Siza Secondary Crain Sizas	1
T &	150.	Recovery (な)	Blows /6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
ļ	1025017	83		Top 3": Topsoil; Bottom 17": Brown, fine SAND, trace organics, moist, loose	
‡	1025018	83		Orange brown, fine SAND, trace(-) medium Sand, moist, loose	·
+4	1025019	63		Top 10": Grey, fine SAND, moist, loose; Bottom 5": Light brown, fine SAND, trace(+) medium Sand, moist, loose	
‡	1025020	63		Top 4": As Above; Middle 7": Grey, fine SAND, wet, loose, petroleum odor; Bottom 4": Grey, fine SAND, trace(-) medium Sand, wet, petroleum odor	
+8	1025021	75		Top 6": As Above, petroleum odor; Middle 2": Orange, fine SAND, heavy iron staining, wet, dense; Bottom 10": Greensh grey, fine SAND, wet, moderately dense	
‡	1025022	75		Top 16": As Above; Middle 1": Grey, coarse to fine Sand, trace fine Gravel, wet, loose; Bottom 1": Grey, CLAY, trace fine Sand, wet, dense	
+12		100		As Above	
+ + + 16				Bottom of Boring at 13'	
24					

Comments:

FID Malfunction. Borehole backfilled with bentonite chips upon completion.

Project: Tiedown Area LEA Comm No: 68V7033 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: LEA Geoprobe Macro Core

Groundwater Observations: Depth: NM At:

Depth: At:

Hours

Start Date 01/20/97 End Date 01/20/97

Boring ID

SK-SB-112

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Easting:

Deptn:		1 [:	Hours	÷ Casung:	
1	San	nple Informa	tion	Sample Description	1 1
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1025023	83		Top 2": Topsoil; Bottom 18": Brown, fine SAND, trace(-) medium Sand, trace organics, moist, moderately dense	
†	1025024	83		Orange brown, fine SAND, trace(-) medium Sand, moist, loose	
+4	1025025	63		Top 5": As Above; Bottom 10": Grey brown, fine SAND, trace medium Sand, moist, loose	
1	1025026	63		Top 10": As Above; Bottom 5": Grey, medium to fine SAND, wet, loose, NO petroleum odor	
-8	1025027	75		Top 8": As Above; Middle 3": Orange, fine SAND, heavy iron staining, wet, dense; Bottom 7": Greenish grey, fine SAND, wet, moderately dense	
†	1025028	75		Top 14": As Above; Middle 1": Grey, coarse to fine SAND, trace fine Gravel, wet, loose; Bottom 2": Grey, CLAY, trace(+) fine Sand, wet, dense	
+12				Bottom of Boring at 12'	
+ 16				•	
20					
†					
-24					
	l .		1		1

Groundwater Observations:

Project: Tiedown Area 68V7033 LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Sampling Method: Geoprobe Macro Core

Start Date 01/20/97 **End Date** 01/20/97

Boring ID

SK-SB-113

Logged By: D. Brisson Drilling Foreman: J. J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Froundwater Depth: NM Depth:		tions: At: At:	Hours Hours	Surface Elevation: Vorthing: Easting:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
ļ° l	1025029	42		Top 6": Topsoil - large Cobbles; Bottom 4": Orange brown, fine SAND, large Cobbles in sample, Cobble lodged in tip	
†				No Recovery	
+	1025031	63		Alternating bands of grey-orange brown, fine SAND, moist, loose	
 	1025032	63		Grey, fine SAND, trace medium SAND, wet at Bottom 7", loose, slight petroleum odor on wet material	
+8	1025033	75		Top 10": As Above; Middle 2": Orange, fine SAND, heavy iron staining, dense, wet; Bottom 6": Greenish grey, fine SAND, wet, dense	
	1025034	75		Top 12": As Above; Middle 3": Grey, coarse to fine SAND, trace(-) fine Gravel, wet, loose; Bottom 3": Grey, CLAY, trace(-) fine Sand, wet, dense	
+12				Bottom of Boring at 12'	
‡					
16					
20					
†					
24					
Comments:	FID Ma	alfunction	ı. Borehole	backfilled with bentonite chips upon completion.	

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Project: Tiedown Area LEA Comm No: 68V7033 Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: Drilling Method: Sampling Method: Geoprobe Macro Core

Groundwater Observations: Depth: NM

Hours

Start Date 01/21/97 **End Date** 01/21/97

Boring ID

SK-SB-114

D. Brisson

Logged By: D. Be Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing:

Depth:	At: Hours		Hours	Easting:		
	San	iple Informa	ition	Sample Description		
Elevation/ Depth	Sample No.	Recovery (건)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm	
10	1025037	63		Top 6": Topsoil; Middle 2": Light brown, medium to fine SAND, moist, loose; Bottom 7": Orange brown, fine SAND, trace organics, moist, moderately dense	0	
†	1025038	63		Orange brown, grading to grey, fine SAND, trace(-) medium Sand, moist, moderately dense	0	
+4	1025039	75		As Above (grey, fine SAND)	2	
+	1025040 1025041	75		Top 10": As Above; Bottom 8": Grey, fine to medium SAND, trace(+) medium Sand, wet, loose, petroleum odor	10	
-8	1025042	42		Top 7": As Above (no petroleum odor); Bottom 3": Greenish grey, fine SAND, little medium Sand, wet, loose	2	
†	1025043	42		Top 9": As Above, grading to orange brown; Bottom 1": Grey, CLAY, trace(-) fine Sand, wet, dense	2	
12				Bottom of Boring at 12'		
+16						
20						
- 24				·		
Comments	* Roreho	le hackfi	illed with he	entonite chips upon completion.		

Groundwater Observations:

Project: Tiedown Area Start Date Boring ID LEA Comm No: 68V7033 01/21/97 Client: Pratt & Whitney **End Date** SK-SB-115 East Hartford, CT 01/21/97 Location: Logged By: D. B Drilling Foreman: **Drilling Contractor: LEA** D. Brisson Drilling Method: Sampling Method: J. Sweeton Geoprobe Drill Rig: Geoprobe 5400 Macro Core Surface Elevation:

Hours Depth: NM Northing: Depth: Hours Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1025044 75 0 Top 4": Topsoil; Middle 10": Brown, fine SAND, trace(-) medium Sand, trace organics, moist, dense; Bottom 4": Orange brown, fine SAND, moist, moderately dense 1025045 75 O As Above 1025046 75 2.0 Top 15": Grey, fine SAND, moist, moderately dense; Bottom 3": Grey, fine SAND, trace(+) medium Sand, moist 150.0 1025047 75 As Above, wet in Bottom 8" of sample, high petroleum odor in wet portion 700.0 1025048 63 Top 7": As Above, visible product (clear, shiny) on soil; Bottom 8": Greenish grey, fine SAND, trace(-) medium Sand, wet, moderately dense 63 30.0 1025049 Top 10": As Above; 1": Lens of orange, fine SAND, heavy iron staining; Middle 3": Greenish grey, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 1": Grey, CLAY, trace(-) fine Sand, wet, dense 12 Bottom of Boring at 12' 16 20

Comments:

Borehole backfilled with bentonite chips upon completion.



Boring

z

2EOTO(GIC BOR	ING D	OG-	Page 1 of 1	
	Tiedown A m No: 68			Start Date Boring ID)
Client: P	ratt & Whit	ney		End Date 01/21/97 SK-SB-11	6
Drilling Control Drilling M Sampling	ontractor: lethod: G Method: lter Observa IM A	LEA eoprobe Macro C	Core Hours Hours	Logged By: D. Brisson Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	<u>, , , , , , , , , , , , , , , , , , , </u>
	<u> </u>	ple Informat		Sample Description	
Elevation/ Depth	Sample No.	Recovery (え)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm
ް	1025050	83		Top 6": Topsoil; Bottom 14": Brown, fine to very fine SAND, trace organics, moist, dense	0
† †	1025051	83		Orange brown, fine SAND, trace organics, moist, dense	0
- 4	1025052	75		Orange brown, fine to medium SAND, moist, loose	0
†	1025053	76		Top 10": As Above; Bottom 8": Grey, fine SAND, trace(-) medium Sand, wet, loose, slight petroleum odor	20
8	1025054	83		Top 10": Grey, fine to medium SAND, wet, loose, petroleum odor; Bottom 10": Orange brown, fine SAND, trace(+) medium Sand, wet, NO petroleum odor	30
† † †	1025055	74		Top 15": As Above; Middle 2": Grey, coarse to fine SAND, wet, loose; Bottom 3": Grey, CLAY, trace fine Sand, wet, dense	0
十12					

Bottom of Boring at 12.25'

Borehole backfilled with bentonite chips upon completion. Comments:

Boring No: SK-SB-116

16

Project: Add. Invest. Fire Trning Area A **LEA Comm No:** 68V7037

Client: Pratt & Whitney Location: East Hartford, CT

Drilling Contractor: LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core

Groundwater Observations: Depth: NM At:

Hours

Star Date 1/30/97 **End Date** 1/30/97

Boring ID

SK-SB-117

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting: J. Sweeton

Depth:	A	Lt:	Hours	₹ Easting:		
	Sam	ple Inform	ation	Sample Description		
Elevation/ Depth	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
°	1025906	83		Top 6": Topsoil, frozen; Bottom 14": Dark brown, grading to grey brown, fine SAND, trace(-) very fine Sand, trace organics, moist, moderately dense	0	
‡	1025907 1025908	83		Top 10": Grey brown, fine SAND, moist, moderately dense; Bottom 10": Red brown, fine SAND, trace(-) medium Sand, moist, moderately dense	0	
+4	1025909	83		Top 12": Grey, fine SAND, wet, loose; Middle 2": Grey, coarse to fine SAND, wet, loose; Bottom 6": Greenish grey, fine SAND, trace(-) medium Sand, wet, loose	0	
‡	1025910	83		Top 18": Greenish grey grading to grey brown, fine SAND, trace(-) medium Sand, wet, moderately dense; Bottom 2": Grey, coarse to fine SAND, wet, loose	0	
+8 +	1025911	83		Top 10": Grey, fine SAND, wet, loose; Bottom 10": Greenish grey, medium to fine SAND, trace(-) coarse Sand, wet, loose	2	
-12	1025912	83		Top 12": Greenish grey, fine SAND, trace(+) medium Sand, wet, loose; Middle 7": Orange brown, coarse to fine Sand, wet, heavy iron staining, loose; Bottom 1": Grey, CLAY, trace fine Sand, wet, dense	4	
+	· .			Bottom of boring at 12'		
16				·		
+ + + + + + + + + + + + + + + + + + + +						
+ -20 +						
-24						
Comments	Pombo	la backf		ntonite chips upon completion.		

Project: Add. Invest. Fire Trning Area A LEA Comm No: 68V7037 Client: Pratt & Whitney

Location: East Hartford, CT

Drilling Contractor: LEA Drilling Method: Geopro Sampling Method: Macr Groundwater Observations: Geoprobe Macro Core

Depth: NM Depth:

At: At:

Hours Hours Start Date 1/30/97 **End Date** 1/30/97

Boring ID

SK-SB-118

Logged By: D. Brisson

Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:
Easting:

Easting:

Elevation/ Depth	Sample No. 1025913	Recovery	Blows	Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	
Depth		Recovery (%)	Blows		
.]°	1025913			Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1		92		Top 6": Top soil, frozen; Bottom 16": Dark brown, fine SAND, trace very fine Sand, trace organics, moist, moderately dense	0
‡	1025914	92		Top 8": Dark brown, fine SAND, trace very fine Sand, moist, moderately dense; Bottom 14": Grey brown, fine SAND, trace(-) medium Sand, moist, moderately dense	0
+4	1025915	83		Top 15": As above; Bottom 5": Orange brown, medium SAND, trace fine Sand, moist, moderately dense	0
‡	1025916	83	-	Top 6": As above: Bottom 16": Grey brown, medium SAND, trace fine Sand, some coarse Sand, wet, loose	6.0
+8	1025917	92		Top 8": As above; Bottom 14": Grey brown, fine SAND, some medium Sand, wet, loose	25.0
† † †	1025918	92		Top 16": Orange brown, medium SAND, trace fine Sand, trace coarse Sand, wet, loose; Bottom 6": Grey, CLAY, trace Silt, wet, dense	11.0
+12				Bottom of boring at 12'	
<u> </u>			·		
 16					
† †				·	
+20					
† †					·
+24					
Comments	s: Boreho	le hackfi	illed with be	entonite chips upon completion.	l

Add. Invest. Fire Trning Area A Start Date Project: Boring ID LEA Comm No: 68V7037 1/30/97 Client: Pratt & Whitney **End Date** SK-SB-119 Location: East Hartford, CT 1/30/97 **Drilling Contractor:** LEA Logged By: D. Brisson Drilling Foreman: J. Sweeton Drilling Method: Geoprobe Sampling Method: **Macro Core** Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM At: Hours Northing: At: Hours **Easting:** Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample (2) Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 0 1025919 Top 11": Brown, fine SAND, trace medium Sand, trace coarse Gravel, trace organic, frozen; Bottom 10": Brown, fine SAND, trace medium Sand, trace organic, moist, moderate density 1025920 88 0 Top 8": Brown, medium SAND, trace fine Sand, trace coarse Sand, trace coarse Gravel, trace organic, moist, moderate density; Bottom 13": Dark brown, medium SAND 205.0 1025921 58 trace fine Sand, trace coarse Sand, trace coarse Gravel, moist, moderate density Top 6": As above; Bottom 8": Blackish brown, fine SAND, some medium Sand, trace Silt, trace organic, pieces of > 1000 1025922 58 wood, wet, moderately dense Top 8": As above; Bottom 6": Dark brown, medium SAND, trace fine Sand, trace Silt, wet, moderate density 0.5 1025923 50 Orange brown, medium SAND, trace fine Sand, some coarse Sand, trace Gravel, wet, loose 10.0 1025924 50 Brown, medium SAND, trace fine Sand, trace coarse Sand, wet, loose 12 Top 10": As above; Bottom 2": Grey, CLAY, trace Silt, wet, Bottom of boring at 13' 16 20

Borehole backfilled with bentonite chips upon completion. Comments:

Add. Invest. Fire Trning Area A Project: 68V7037 LEA Comm No: Client: Pratt & Whitney

Location: East Hartford, CT

Drilling Contractor: LEA **Drilling Method:** Geoprobe Sampling Method: Macro Core

Groundwater Observations:

Depth: NM Depth:

At: At: Hours Hours

rt Date 1/31/97 **End Date** 1/31/97

Boring ID

SK-SB-120

D. Brisson

Logged By: D. B Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation:

Northing: Easting:

Sample No.	Recovery	Blows /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes,	1
	1 "	/6"	Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
1025927	63		Top 10": Dark brown, fine to very fine SAND, trace(-) Silt, trace organics, moist, dense; Bottom 5": Grey brown, fine to very fine SAND, moist, moderately dense	0
1025928 1025929	63		Top 8": As above; Middle 2": Orange brown, fine SAND, trace(-) very fine SAND, moist, loose; Bottom 5": Orange brown, fine SAND, wet, loose	0
1025930	75		Top 10": As above; Bottom 8": Grey brown, fine SAND, trace(-) very fine Sand, dense, wet	0
1025931	75		Top 3": As above; Bottom 15": Greenish grey to grey, fine SAND, trace(+) medium Sand, wet, loose	2.0
1025932	67		As above	2.0
1025933	80		Top 22": Grey to greenish grey, fine SAND, trace(+) medium Sand, wet, loose; Bottom 2": Grey, CLAY, trace(-) fine Sand, wet, dense	
				<u> </u>
			Bottom of boring at 12.5'	
	1025929 1025930 1025931 1025932	1025930 75 1025931 75 1025931 67	1025930 75 1025931 75 1025931 67	to very fine SAND, moist, moderately dense Top 8": As above; Middle 2": Orange brown, fine SAND, trace(-) very fine SAND, moist, loose; Bottom 5": Orange brown, fine SAND, wet, loose Top 10": As above; Bottom 8": Grey brown, fine SAND, trace(-) very fine Sand, dense, wet Top 3": As above; Bottom 15": Greenish grey to grey, fine SAND, trace(+) medium Sand, wet, loose As above Top 22": Grey to greenish grey, fine SAND, trace(+)

Project: Add. Invest. Fire Trning Area A LEA Comm No: 68V7037 Client: Pratt & Whitney

Location: East Hartford, CT **Drilling Contractor:** LEA

Drilling Method: Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core

Depth: NM Depth:

At: Hours At: Hours

art Date 1/31/97 **End Date** 1/31/97

Boring ID

SK-SB-121

Logged By: D. Brisson
Drilling Foreman: J. Sweeton
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing:

Easting:

Depth:		At:	Hours	₹ Lasting:		
	Sample Information			Sample Description		
Elevation/ Depth	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppn	
0	1025934	75		Top 4": Topsoil; 2": Pavement; 4": Traprock; Bottom 8": Dark brown to grey brown, fine SAND, trace very fine Sand, moist, dense	0	
†	1025935	75		Top 10": As above; Bottom 8": Orange brown, fine SAND, trace(-) medium Sand, iron staining, wet, loose	0	
+4	1025936	63		Top 10": As above: Bottom 5": Greenish grey, fine SAND, wet, loose	٥	
†	1025937	63		Top 10": As above; Bottom 5": Grey, fine to medium SAND, trace(-) coarse Sand, wet, loose	1.0	
-8	1025938	67		Top 6": Grey, fine SAND, wet, loose; Bottom 14": Grey, fine to medium SAND, wet, loose	0	
† †	1025939	67		Top 6": Grey, fine SAND, trace(-) medium Sand, wet, loose; Middle 10": Grey, fine to medium SAND, wet, loose; Bottom 2": Dark grey, fine SAND, wet, loose		
† 12				Top 2": Grey, CLAY, trace(-) fine SAND, wet, dense	0	
16				Bottom of boring at 12.5'		
20						
+ 24						
Comments	: Boreho	le backfil	led with be	entonite chips upon completion.	<u> </u>	

Add. Invest. Fire Trning Area Am No: 68V7037 Project: Add. LEA Comm No: Client: Pratt & Whitney Location: East Hartford, CT **Drilling Contractor:** LEA Drilling Method: Geoprobe Sampling Method: Macro Core Groundwater Observations: 꼬

Start Date 1/31/97 **End Date** 1/31/97

Boring ID

SK-SB-122

Logged By: D. B Drilling Foreman: D. Brisson J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing:

Depth: Depth:	NM	At: At:	Hours Hours	¥ Northing: Easting:	
		Sample Informa		Sample Description	
Elevation/ Depth	Sample No.		Blaws /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	102594	92		Top 6": Process stone, frozen; Bottom 16": Dark reddish brown, fine SAND, trace medium Sand, trace Silt, trace organic, moist, moderately dense	0.0
‡	102594	92		Dark brown, fine SAND, trace medium Sand, trace Silt, moist, moderate density	0.0
+4	102594	96		Top 18": Orange brown, fine SAND, some medium Sand, trace Silt, moist, moderate density; Bottom 5": Grey brown, medium SAND, some fine Sand, trace coarse Sand, wet,	0.0
‡	102594	13 96		Grey brown, medium SAND, some coarse Sand, trace fine Sand, wet, loose	0.0
+8	102594	14 88		Top 12": Orange brown, medium SAND, some coarse Sand, trace fine Sand, wet, loose; Bottom 9": Orange brown, medium SAND, some fine Sand, trace coarse Sand, wet,	0.0
12	102594	15 88		Top 15": Grey brown, medium SAND, trace fine Sand, trace coarse Sand, wet, loose; Bottom 6": Grey, CLAY, trace fine Sand, trace Silt	0.0
. 					
- 16					
+ 20 +					
-24					
Comme	nts: Bore	ahole hackfi	lled with he	entonite chips upon completion.	

epth: Nepth:	<i>E</i>	\t: \t:	Hours Hours	Surface Elevation: Northing: Easting:	·
evation/ epth	Sam Sample No.	Recovery	Slaws /6"	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
°	1205948 1025949	63		Top 8": Orange brown, medium to fine SAND, frozen; Middle 6": Dark brown to grey brown, fine SAND, trace(+) very fine Sand, trace traprock, moist, trace organics, dense;	0.5
‡	1026950	63		Bottom 1": Grey, fine SAND, trace organics, moderately dense As above	0
+4	1025951	75		Top 4": As above; Middle 10": Grey, fine SAND, with bands of orange brown, fine Sand, wet, moderately dense; Bottom 4": Grey, fine SAND, trace medium Sand, wet, loose	0
‡	1025952	75		Grey to orange brown, fine SAND, trace(+) medium Sand, wet, loose	10
+8	1026953	67		Top 6": Grey, coarse to fine SAND, wet, loose; Middle 4": Grey, fine SAND, wet, loose; Bottom 10": Grey, fine SAND, trace(+) medium Sand, wet, loose	10
12	1025954	67		Top 4": As above; 10": Greenish grey, fine SAND, trace(-) medium Sand, wet, loose; 5": Orange brown, coarse to fine SAND, heavy iron staining, wet, loose; Bottom 1": Grey, CLAY, trace(-) fine Sand, wet, dense	0
† '-		100	·	As above bottom 1"	 -
16				Bottom of boring at 12.5'	
20					
1					
+	j		ļ		1

Project: Add. Invest. Fire Trning Area A tart Date Boring ID 2/3/97 68V7037 LEA Comm No: Client: Pratt & Whitney **End Date** SK-SB-124 Location: East Hartford, CT 2/3/97 Logged By: D. Brisson
Drilling Foreman: J. Swo
Drill Rig: Geoprobe 5400 **Drilling Contractor:** LEA **Drilling Method:** J. Sweeton Geoprobe Sampling Method: Macro Core **Groundwater Observations:** Surface Elevation: Depth: NM Hours Northing: At: Depth: At: Hours Easting:

Depth:		At:	Hours	₹ Kasung:	
	San	nple Informat	tion	Sample Description	
Elevation/ Depth	Sample No.	Recovery (건)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
+0	1025955	58		Top 6": Dark brown, medium SAND, some fine Sand, some coarse Gravel, frozen; Bottom 8": Red brown, medium SAND, some fine Sand, trace coarse Gravel, moist,	0
‡	1025956	58		moderately dense Top 6": Red brown, medium SAND, some fine Sand, trace coarse Sand, moist, moderately dense; Bottom 8": Brown,	0
+4	1025957	92		fine SAND, trace medium Sand, moist, moderately dense Top 12": Brown, medium SAND, some fine Sand, moist, moderate density; Bottom 10": Brown, fine SAND, some medium Sand, moist, moderate density	0
‡	1025958	92		Brown, medium SAND, trace fine Sand, wet, moderate density	10
+8	1025959	92		Top 11": Brown, medium SAND, trace fine Sand, trace coarse Sand, wet, loose; Bottom 11": Brown, medium SAND, some coarse Sand, trace fine Sand, wet, loose	5
‡	1025960	92		Top 18": Red brown, medium SAND, some coarse Sand, trace fine Sand, wet, loose; Bottom 4": Grey, CLAY, trace Silt, wet, moderately dense	0
+12				Bottom of boring at 12.0'	
16					
+					
20					
24					
1	}				



Project: Add. Invest. Fire Trning Area A LEÀ Comm No: 68V7037 Client: Pratt & Whitney Location: East Hartford, CT Drilling Contractor: Drilling Method: LEA Geoprobe Sampling Method: Macr Groundwater Observations: Macro Core Hours Depth: NM

2/3/97 End Date 2/3/97

Boring ID

SK-SB-125

Logged By: D. Brisson
Drilling Foreman: J. Swe
Drill Rig: Geoprobe 5400
Surface Elevation:
Northing: J. Sweeton

Depth: Depth:		At: At:	Hours Hours	Northing:			
Elevation/ Depth	Sa	mple Informati	nation Sample Description				
	Sample No.	Recovery (X)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ррп		
T°	1025961	42		Top 6": Brown, fine to medium SAND, traprock in top 6", frozen, dense; Middle 2": Brown, fine to very fine SAND, trace medium Sand, frozen, dense; Bottom 2": Grey brown, fine SAND, trace organics, moist, loose			
ł	1025962	42		As above			
+4	1025963	63		Top 10": Grey brown, fine SAND, moist to wet, dense; Bottom 5": Grey, medium to fine SAND, wet, loose			
‡ ‡	1025964	63		Top 5": As above; Bottom 10": Greenish grey, fine SAND, wet, loose			
+8	1025965	83		Grey, fine SAND, little medium Sand, wet, loose			
12	1025966	83		Top 6": Greenish grey, fine to medium SAND, wet, loose; Middle 10": Orange brown, medium to fine SAND, trace coarse Sand, wet, loose; Bottom 4": Grey, CLAY, trace fine Sand, wet, dense			
ļ "				Bottom of boring at 12'			
Ī							
+16							
† †							
+20							
+24							
‡							
Comme	nts: Boreh	ole backfil	ed with be	entonite chips upon completion.			

Add. Invest. Fire Trning Area A art Date Project: **Boring ID** LEA Comm No: 68V7037 Client: Pratt & Whitney *14/*97 **End Date** SK-SB-126 Location: East Hartford, CT 2/4/97 LEA D. Brisson **Drilling Contractor:** Logged By: J. Sweeton Drilling Method: Geoprobe Drilling Foreman: Drill Rig: Macro Core Geoprobe 5400 Sampling Method: Groundwater Observations: Surface Elevation: Depth: NM Hours Northing: At: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes. Elevation/ Depth Sample No. Moisture, Sorting, Sphericity, Angularity, (%) (ppm) Sedimentary Structures, Density, Cohesiveness 1025969 Top 3": Pavement; Middle 4": Brown, medium to fine SAND, traprock in sample, frozen; Bottom 3": Dark brown, fine SAND, trace very fine Sand, moist, dense 1025970 1025971 42 o As above Top 5": Orange, brown, fine SAND, trace(-) medium Sand, moist, loose; Middle 10": Grey, fine SAND, alternating bands of grey and orange brown, very fine Sand, 1/4" wide, wet, moderately dense; Bottom 3": Greenish grey; fine 75 1025972 6 20 1025973 75 SAND, wet, moderately dense Top 10": As above; Middle 3": Grey, medium to fine SAND, wet, loose; Bottom 5": Grey, fine SAND, wet, loose ō 1025974 Orange brown, fine to medium SAND, trace(-) coarse Sand, wet, loose 1025975 72 0 Top 17": Greenish grey, fine SAND, trace(-) medium Sand, wet, loose; Bottom 1": Grey, CLAY, trace(-) fine Sand 12 60 As above Bottom of boring at 12.5' 16 20 Boring No: SK-SB-126 Borehole backfilled with bentonite chips upon completion. Comments:

GEOLOGIC BORING LOG Page 1 of 1 Project: Add. Invest. Fire Trning Area A art Date Boring ID 4/97 68V7037 LEA Comm No: En Date Client: Pratt & Whitney SK-SB-127 2/4/97 Location: East Hartford, CT Logged By: D. Brisson **Drilling Contractor:** Drilling Foreman: Drilling Method: Geoprobe J. Sweeton Drill Rig: Geoprobe 5400 Sampling Method: Macro Core Groundwater Observations: Surface Elevation: Hours Northing: Depth: NM At: **Easting:** Hours At: Depth: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Sample No. Depth Moisture, Sorting, Sphericity, Angularity, covery (X) (ppm) Sedimentary Structures, Density, Cohesiveness Top 3": Pavement; Middle 5": Traprock and brown, medium 63 1025976 to fine SAND, frozen; Bottom 7": Dark brown, fine to very fine SAND, moist, dense 1025977 0 Orange brown, fine SAND, trace(-) very fine Sand, moist, moderately dense 1025978 83 70 Top 15": Grey, fine SAND, moist, moderately dense; Bottom 5": Grey, fine to medium SAND, wet, loose, slight petroleum odor 400 1025979 As above (slight petroleum odor) 0 1025980 Top 15": Grey to orange brown, medium to fine SAND, trace(-) coarse Sand, wet, loose; Bottom 5": Greenish grey, fine SAND, wet, moderately dense ō 1025981 83 Top 10": As above; Middle 6": Alternating bands of grey and orange brown, fine to medium SAND, trace(-) coarse Sand, wet, dense; Bottom 4": Grey, CLAY, trace(-)

fine SAND, wet, dense

Bottom of boring at 12'

Comments:

24

18

20

Borehole backfilled with bentonite chips upon completion.

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Project: Add. Invest. Fire Trning Area A LEA Comm No: 68V7037 Start Date **Boring ID** 2/4/97 Client: Pratt & Whitney ad Date SK-SB-128 4/97 Location: East Hartford, CT **Drilling Contractor:** LEA ogged By: D. Brisson Drilling Method: Drilling Foreman: Geoprobe J. Sweeton Sampling Method: Drill Rig: Geoprobe 5400 Macro Core Groundwater Observations: Surface Elevation: Depth: NM At: Hours Northing: Hours Easting: Depth: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Moisture, Sorting, Sphericity, Angularity, Sample No. (ppm) Sedimentary Structures, Density, Cohesiveness Top 2": Pavement; 2": Red brown, fine SAND, trace organics, frozen; 4": Dark brown, fine to very fine SAND, 1025982 42 ō trace(-) Silt, moist, dense; Bottom 2": Grey brown, fine SAND, trace(-) very fine Sand, moist, dense 1025983 42 ٥ As above 1025984 76 ٥ Top 4": Red brown, fine SAND, wet, loose; Bottom 14": Alternating bands of grey and orange brown, fine SAND, wet, moderately dense 1025985 75 50 Grey to orange brown, fine to medium SAND, trace(-) coarse Sand, wet, loose 1025986 100 0 Top 6": Grey, fine SAND, little medium Sand, wet, loose; Bottom 18": Orange brown (iron staining), fine to medium SAND, trace(-) coarse Sand, wet, loose 1025987 100 Top 20": Grey, fine SAND, trace(+) medium Sand, wet, loose; Middle 2": Grey, coarse to fine SAND, wet, loose; ō Bottom 2": Grey, CLAY, trace fine Sand, wet, dense 12 Bottom of boring at 12.21 16 20 24 Boring Comments: Borehole backfilled with bentonite chips upon completion.

LEA Committee Client: Proceedings: Drilling Committee Co	ratt & Whit East Hart entractor:	V7037 iney ford, CT LEA	ning Area	2/4/97 End Date 2/4/97 SK-SB-12 Logged By: D. Brisson	
Drilling Me Sampling R Groundwa Depth: N Depth:	Method: ter Observat M	ieoprobe Macro C tions: \t: \t:	ore Hours Hours	Drilling Foreman: J. Sweeton Drill Rig: Geoprobe 5400 Surface Elevation: Northing: Easting:	
Clevation/ Pepth	Sam Sample No.	Recovery	Blows	Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)
0	1025988	83		Top 2": Pavement; Middle 4": Grey brown, fine to medium SAND, frozen; Bottom 14": Red brown, medium to fine SAND, some coarse Sand and Gravel, moist, loose	0
‡	1025989	83		Grey, fine SAND, trace(-) medium Sand, moist, loose	0
+4	1025990	76		Top 10": Grey, fine SAND, moist, loose; Bottom 8": Orange, brown to grey, fine SAND, trace(+) medium Sand, moist to wet	0
+	1025991	76		Orange brown, fine to medium SAND, wet, loose	1.0
+8	1025992	83		Top 5": Orange brown, fine SAND, wet, loose; Bottom 15": Grey, fine SAND, trace(+) medium Sand, wet, loose	0
12	1025993	83		Top 10": As above; Middle 9": Greenish grey, fine SAND, wet, loose; Bottom 1": Grey, CLAY, trace(-) fine Sand	0
# '- + + +				Bottom of boring at 12.3'	
-18				·	
+					
20					
+					
24					
Comments	: Boreho	le backfill	ed with be	entonite chips upon completion.	•

Start Date Project: South Klondike Debris Pile Boring ID LEA Comm No: 68V7038 2/6/97 Client: Pratt & Whitney **End Date** SK-SB-130 Location: East Hartford, CT 2/6/97 Logged By: **Drilling Contractor:** D. Brisson LEA Drilling Method: Drilling Foreman: Geoprobe J. Sweeton Sampling Method: Macro Core Drill Rig: Geoprobe 5400 Surface Elevation: **Groundwater Observations:** Depth: NM Northing: Hot At: Easting: Depth: At: Hou Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Sample No. ecove) (۲) Blows Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness 1026209 83 Orange brown, fine SAND, trace(+) very fine SAND, moist, moderately dense 1026210 83 Top 18": As above; Bottom 2": Red brown, fine SAND, moist, loose 1026211 83 Orange brown, fine SAND, trace(+) medium Sand, wet on bottom 1 1026212 83 Top 18": Gray to red brown, fine SAND, some very fine Sand, wet, moderately dense; Bottom 2": Orange brown, fine SAND, wet, loose 1026213 Top 15": Gray brown, fine SAND, trace(+) very fine Sand, wet, moderately dense; Bottom 5": Orange brown to gray brown, fine SAND, wet, loose 1026214 83 As above 12 1026215 42 Gray, coarse to fine SAND, wet, loose Printed On: 1/23/1998 0 No recovery Bottom of boring at 16' 24 Borehole backfilled with bentonite chips upon completion. Comments:

Page 1 of 1 Project: South Klondike Debris Pile rt Date Boring ID LEA Comm No: 6/97 68V7038 Client: Pratt & Whitney Date SK-SB-131 Location: East Hartford, CT **6**797 Logged By: D. Bo Drilling Foreman: D. Brisson **Drilling Contractor:** LEA J. Sweeton Drilling Method: Geoprobe Drill Rig: Geoprobe 5400 Surface Elevation: Sampling Method: Macro Core **Groundwater Observations:** Depth: NM Hours Northing: Depth: Hours Easting: At: Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blows Sample No. ecovery (%) Moisture, Sorting, Sphericity, Angularity, (maga) Sedimentary Structures, Density, Cohesiveness 1026216 1026217 83 Orange brown, fine to very fine SAND, trace Silt, moist, moderately dense 83 1026218 Orange brown to red brown, medium to fine SAND, trace coarse Sand, moist, loose 1026219 Top 10": As above, Bottom 10": Red brown to orange brown, fine to very fine SAND, moist to wet 1026220 83 Top 16": As above bottom 10"; Bottom 4": Orange brown, fine SAND, little medium Sand, wet, loose 1026221 83 Orange brown to red brown, fine SAND, little very fine Sand, wet, moderately dense 1026222 83 As above 1026223 83 Gray brown, fine to medium SAND, trace(-) coarse Sand, wet, loose 1026224 As above 16 Bottom of boring at 16' 20

Comments:

Borehole backfilled with bentonite chips upon completion.

GEOLOGIC BORING LOG Page 1 of 1 Project: Linde Area Add. Inv. UST Date **Boring ID** LEA Comm No: 68V7054 03/26/97 Client: Pratt & Whitney **End Date** SK-SB-138 Location: East Hartford, CT 03/26/97 Logged By: J. Trzaski **Drilling Contractor:** LEA Drilling Foreman: D. Brisson Drilling Method: Geoprobe Geoprobe 5400 Drill Rig: Sampling Method: Macro Core Surface Elevation: **Groundwater Observations:** Hours Northing: Depth: At: Easting: Depth: Hours Sample Information Sample Description Color, Primary Grain Size, Secondary Grain Sizes, Elevation/ Depth Blaws Sample No. Moisture, Sorting, Sphericity, Angularity, (ppm) Sedimentary Structures, Density, Cohesiveness O 1630860 75 Top 6": Brown, fine SAND, trace organic matter, trace fine to coarse Gravel (process stone), dry, loose; Bottom 12": Reddish brown, medium to fine SAND, little coarse Sand, trace fine Gravel, dry, loose 1630861 Same as above last 12": moist at 16", Granite Cobble at 3" 1630862 83 Top 5": Grey, very fine to fine SAND, moist, loose; Bottom 15": Greyish brown, fine to very fine SAND grading to fine SAND, wet, loose, wet at 8" 1630863 1630864 Greyish brown, fine to medium SAND, wet, loose 1630865 67 Yellowish brown, fine to medium SAND, wet, loose 1630866 Top 6": Olive grey, fine to medium SAND, wet, loose; Bottom 10": Olive grey, fine SAND, wet, loose 1630867 75 Olive grey, fine to medium SAND, wet, loose

> Top 9": Yellowish brown to grey, medium SAND, trace coarse Sand, wet, loose; Bottom 9": Grey, varved CLAY,

Boring backfilled with bentonite chips



Printed On: 2/9/1998

1630868

16

20

Comments:

wet, loose

Bottom of Boring at 16'

Start Date 03/26/97 End Date Linde Area Add. Inv. UST Project: **Boring ID** 68V7054 LEA Comm No: Client: Pratt & Whitney SK-SB-139 Location: East Hartford, CT 03/26/97 Logged By: J. Trzaski
Drilling Foreman: D. Bris
Drill Rig: Geoprobe 5400
Surface Elevation: **Drilling Contractor:** Drilling Method: Sampling Method: Geoprobe D. Brisson Macro Core **Groundwater Observations:** Hours Northing: Depth:

Depth:		At: Hours		Easting:		
Elevation/ Depth	Sar	Sample Information		Sample Description		
	Sample No.	Recovery (2)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structures, Density, Cohesiveness	(ppm)	
	1630869	79		Top 5": Dark brown, fine SAND, trace Silt, trace organic matter, moist, loose; Bottom 14": Reddish brown, medium to fine SAND, trace coarse Sand, trace fine Gravel, dry, loose, Cobble at bottom		
1				Top 8": Same as above last 14", dense; Middle 4": Greyish brown, fine SAND, moist, dense; Bottom 7": Same as top 8": dense		
	1630871	88		Top 10": Greyish brown, fine to very fine SAND, wet, loose; Bottom 11": Greyish brown, fine SAND, wet, loose, wet at top		
‡	1630872			Greyish brown, fine to medium SAND, wet, loose		
+8	1630873	71		Olive grey, fine to medium SAND, wet, loose		
Ī	1630874			Top 8": As Above; Bottom 9": Olive grey, fine SAND, wet, loose		
+12	1630875	83		Olive grey, fine SAND, little medium Sand, wet, loose		
.]	1630876			Grey, varved CLAY, wet, loose		
16				Bottom of Boring at 16'		
20						
24						
Comments	: Boring	backfille	d with bent	conite chips		
				•		

